

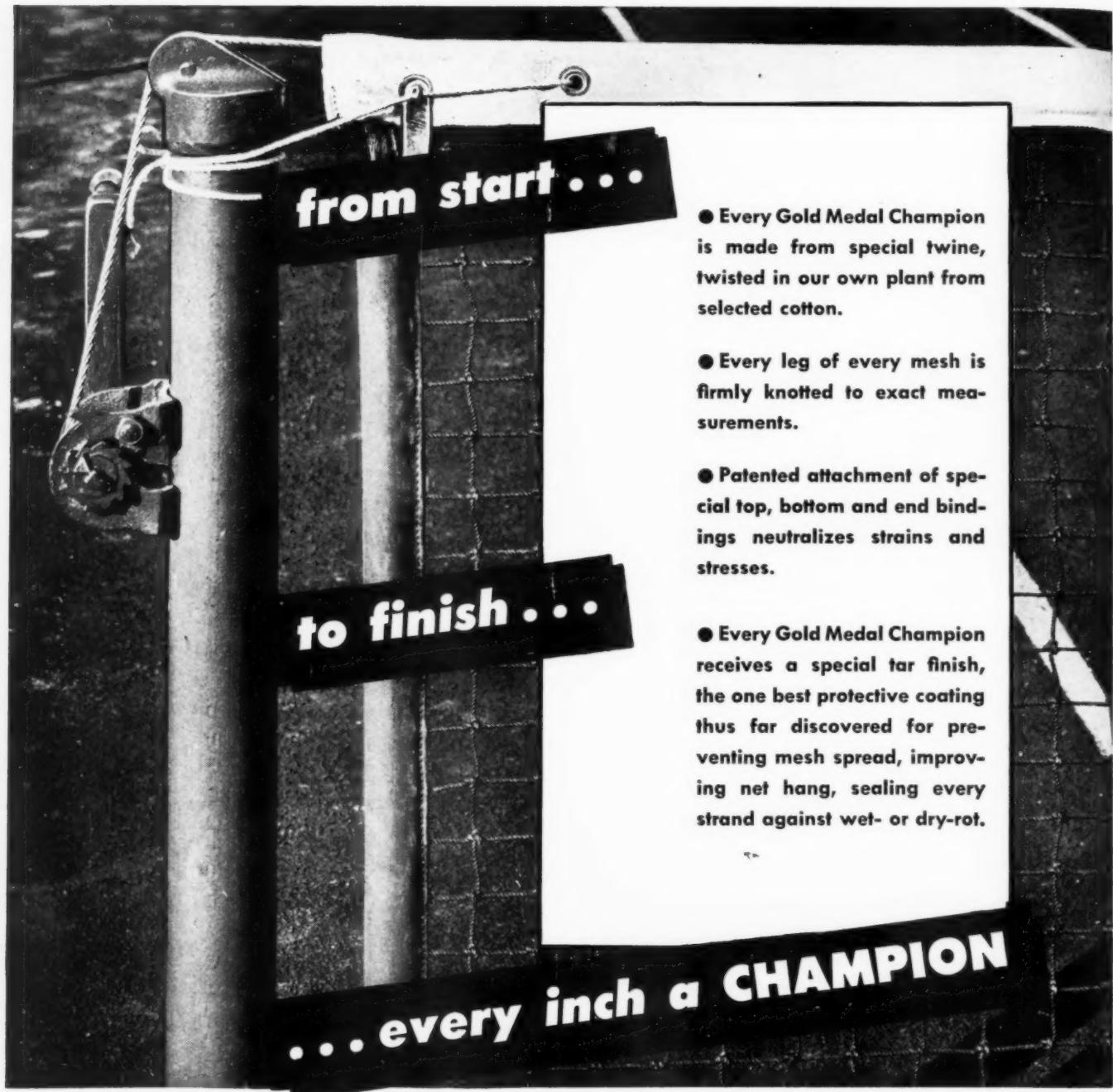
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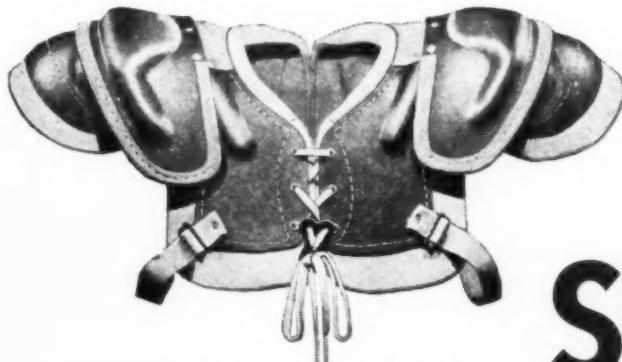
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SCHOLASTIC COACH

Reg. U. S. Pat. Off.

VOLUME 17 • NUMBER 10 • JUNE

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Publisher • G. HERBERT McCracken

Editor • HERMAN L. MASIN

Advertising Manager • OWEN REED

Art Director • M. J. DUNTON

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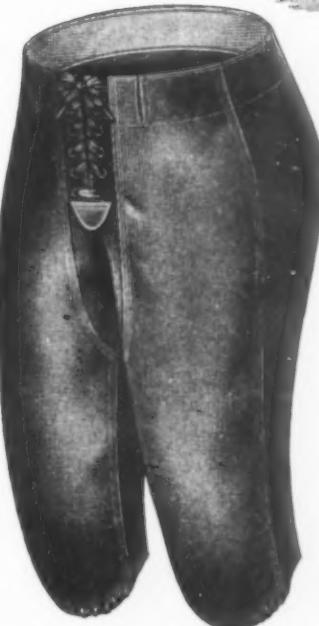
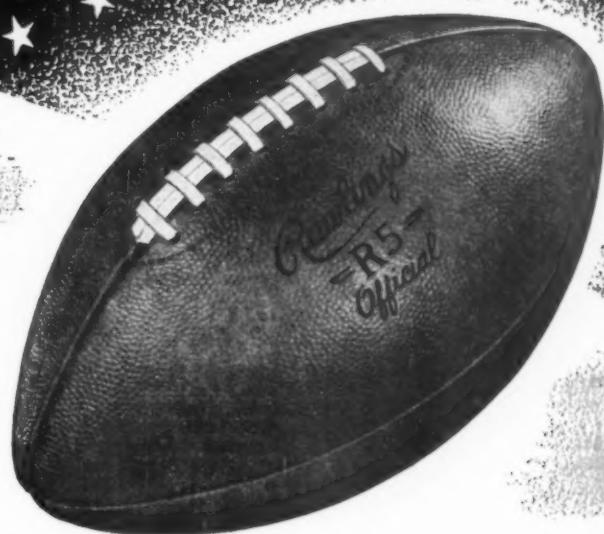
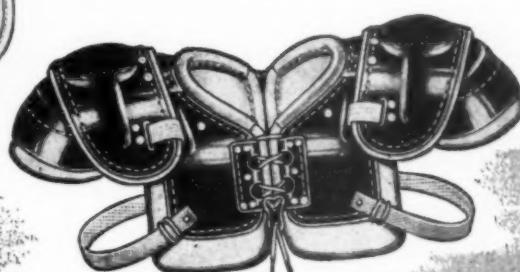


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Strictly from Munger

WE'RE afraid it's true what they say about George Munger. The University of Pennsylvania coach is in love—with football. He loves the game, he loves to coach it, and he loves the kids who play for him.

Sounds corny, doesn't it? But it isn't that way at all. Not after you meet George and talk to him. The guy leaves you with a very warm feeling. He's young, friendly as a pup, and full of a bubbling good humor. Football is strictly a game with him and you know it's always going to be that way.

The nicest part about it is that he's infected his team with the same spirit. We recently spent an entire day with the squad and the happy manner in which the boys disported themselves was very impressive.

Temperament? Grimness? Savagery? It just doesn't exist at Penn. The boys have a walloping good time and that goes double for their coach.

Munger is one of the few coaches who has resisted the temptation of the T. He is strictly a single-winger. His exceptional record — 8 Ivy League crowns in 10 years—attests to the puissance of his single wing and prompted us into taking a look at it through our motion picture camera.

THE way all the boys pitched into the business of picture taking was a revelation. Especially when you remember that Penn was one of the nation's most publicized powerhouses last year, a team that boasted three full-fledged All-Americans in Skip Minisi, George Savitsky, and Chuck Bednarik.

If we expected any display of temperament, we were completely disappointed. The boys couldn't do enough for us. Particularly Savitsky. This nimble 255-pound Brobdingnagian hovered over us like a good-natured bear.

"Need a backfield man?" he'd say, starting to move into the backfield where he has never played in his life. When we said, no, that Minisi and Deuber and Falcone and

Luongo would do fine, he'd say. "Then how about a line backer?"

At one time or another, we found him at guard, tackle and end. When we set up some double-team blocking, he insisted upon playing the dummy defensive opponent.

The court jester—a rubbery faced character named Rex Morgan—insisted upon lining up next to our photographer and shouting instructions in pidgin French.

"Francois," he would yell, gesticulating with his hands, "move zee camera more to zee left; now to zee right. Now a leetle beet under. Oo la la, zuch preety people. Smile, mon amis, for le beau Francois. Ah beaucoup, comme ci, comme ca, minestrone!"

This, of course, was a tremendous aid to our cameraman.

WHILE we were shooting pictures of the backfield, the linemen threshed around behind us indulging in some vigorous calisthenics—like piling up on Savitsky or shot-putting forward passes with each other's bodies.

The backs, in their leisure moments, crashed into freshmen baseball practice on an adjoining field and cajoled the frosh coach into letting them bat. They cut ludicrous figures swinging bats in their football uniforms and cleats.

After shooting the pictures, Coach Munger took us into his pleasantly shoddy cubbyhole of an office and started talking football to us. A tall, lean fellow with crewcut blond hair and baggy clothes, George speaks fluently, wittily, and intelligently. He is about as affected as a hot dog with mustard.

As you may know, he is the only coach in football who suits up for every game. We always assumed this was for morale purposes—to give his boys the feeling he was one of them. This isn't the reason at all, we discovered.

"Before I became head coach at Penn," he explained, "I did some prep school and freshmen coaching. And you know that a schoolboy coach is also a trainer and semi-

manager. He has to do a lot of moving around. So, simply to preserve my clothing, I started to suit up.

"When I came to Penn, I followed the practice without thinking. We won our first game and suiting up became a sort of superstition.

"Anyway, I think it's a good idea. Especially if you're a worrier like I am. The way I squirm on the bench, I'd wear out a pair of pants every game.

"A uniform certainly is more comfortable. After a game, you can shower and leave the park feeling good—unless you've lost, of course."

He reflected a moment, then smiled. "Besides, Penn doesn't pay me enough so that I can buy a suit of clothes and look decent. Come on, let's eat."

On the way to the campus cafeteria, George waved airily to about a half million people. "Hi, ya," he would say, "come to lunch with us." By the time we reached the eat-house, the size of our party would have warmed the cockles of Cecil B. DeMille's heart.

Only Chuck Bednarik, who had a class, refused George's invitation. Watching every passing student salute Chuck respectfully, we said: "Everybody around here seems to worship the guy."

Munger grinned. "Sure, so do I. Ever see that kid play football? He weighs 230 pounds and you can pass over him with a microscope without finding a grain of fat."

ONE of our pick-ups was a kid trying to matriculate at Penn. Unfortunately he had listed Penn as second choice on his application and apparently this was making it tough for him. Munger was very sympathetic, offering helpful advice and promising to do all he could for the boy.

After the party broke up, George led us back to his office. We sat around making more football talk. Suddenly he stopped short. "The nerve of that kid," he exploded. "Imagine listing Pennsylvania as second choice!"



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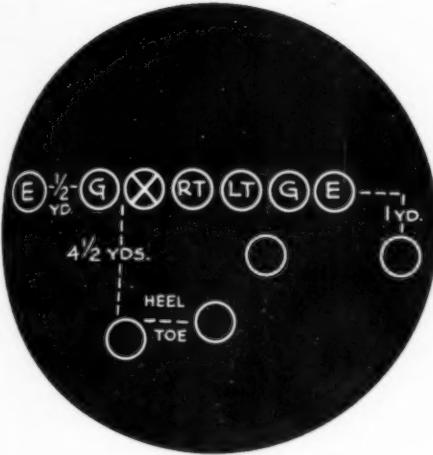


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THE LAST WORD IN SPORTS EQUIPMENT



Penn's Single Wing

By GEORGE MUNGER

WHEN the T epidemic struck football seven or eight years ago, it found the University of Pennsylvania firmly ensconced as a single wing power.

Like nearly everybody else, we were greatly intrigued by the T. But we thought we'd examine it thoroughly before quitting on our time-tested single wing.

We liked what we found; and we still think the T is a fine offensive formation. But we don't think it is any better than the single wing. Not the way the single wing is constructed today.

Most single wing coaches have subjected their offenses to careful analysis and, to keep abreast of the times, have incorporated many progressive techniques and maneuvers. The single wing has thus developed just as much as the T in recent years.

The old stereotyped wingback formation is passe, and you'll seldom find teams like Penn in a solid single wing. We freely employ such modern innovations as flankers, men in motion, and splits in the line.

Because of the timing element, Penn prefers flankers to motion men. Flankers, we believe, reduce the margin of error, speeding up the play and enabling the boys to execute their assignments more smoothly and effectively. Flankers also require less practice time to perfect.

As you know, the T quarterback, after receiving the center pass, usually pivots quickly, presenting his back to the defense. At this instant, the defense has no way of knowing where the ball will go. It could go forward, backward, laterally, or wind up as a forward pass.

The single wing, on the other hand, usually gives immediate di-

rection to the ball. Penn, in an effort to neutralize this shortcoming, has devised its attack so that any play can wind up as a run, a running pass, or a reverse play.

By also adding an effective spin or hidden ball sequence, we have obtained the advantage of the T in that for a fraction of a second our attack does not give away the actual direction of the ball.

A well-rounded offense manipulates the ball in a way that assures advantageous blocking angles on the opponents. Penn sets up blocking angles by (1) spin or hidden ball plays; (2) fake-pass run plays; (3) fake-run pass plays; and (4) reverse plays.

Our basic formation is outlined in the accompanying diagram. As you may see, the short-side end splits out a half yard from the rest of the line, which plays tight.

The tailback sets up four and a half yards back of the seam between the left guard and center, and has a heel-and-toe arrangement with the fullback, who sets back of the seam between the two tackles.

The blocking back lines up between the outside tackle and guard, while the wingback plays a yard back and out from the strong-side end.

An observer will be immediately struck with the deployment of the strong-side personnel. Why play the tackles together alongside center and stick the guard way out next to the end?

The answer is that Penn does a lot of reversing and reverses are predicated on the speed of the interference. That's the reason for the peculiar arrangement of the guards. Being faster and more maneuverable than the tackles, they are placed where they can shoot out quickly in front of the ball-carrier.

Our tackles also pull out frequently, but we don't ask them to run deep courses. In the diagram,

the right tackle is slotted on the inside next to the center. This is a deviation for Penn. As a rule, the left tackle is placed in that spot.

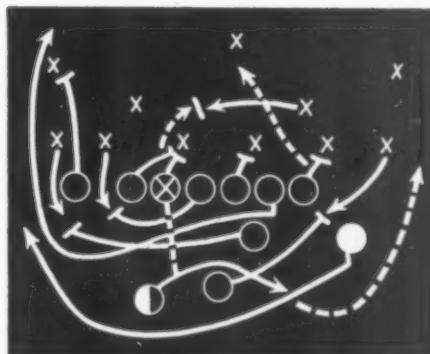
We switched the positions of the tackles because of our personnel. In George Savitsky, our All-American tackle, we discovered a big, powerful 255-pounder who possessed all the speed of a guard. So we deployed him where we could most exploit his speed and explosive blocking ability.

Our left tackle is utilized as a trapper. That's the spot for the powerful, slow type of lineman. He doesn't have to be particularly fast or a fancy blocker, since we don't ask him to lead interference on outside plays.

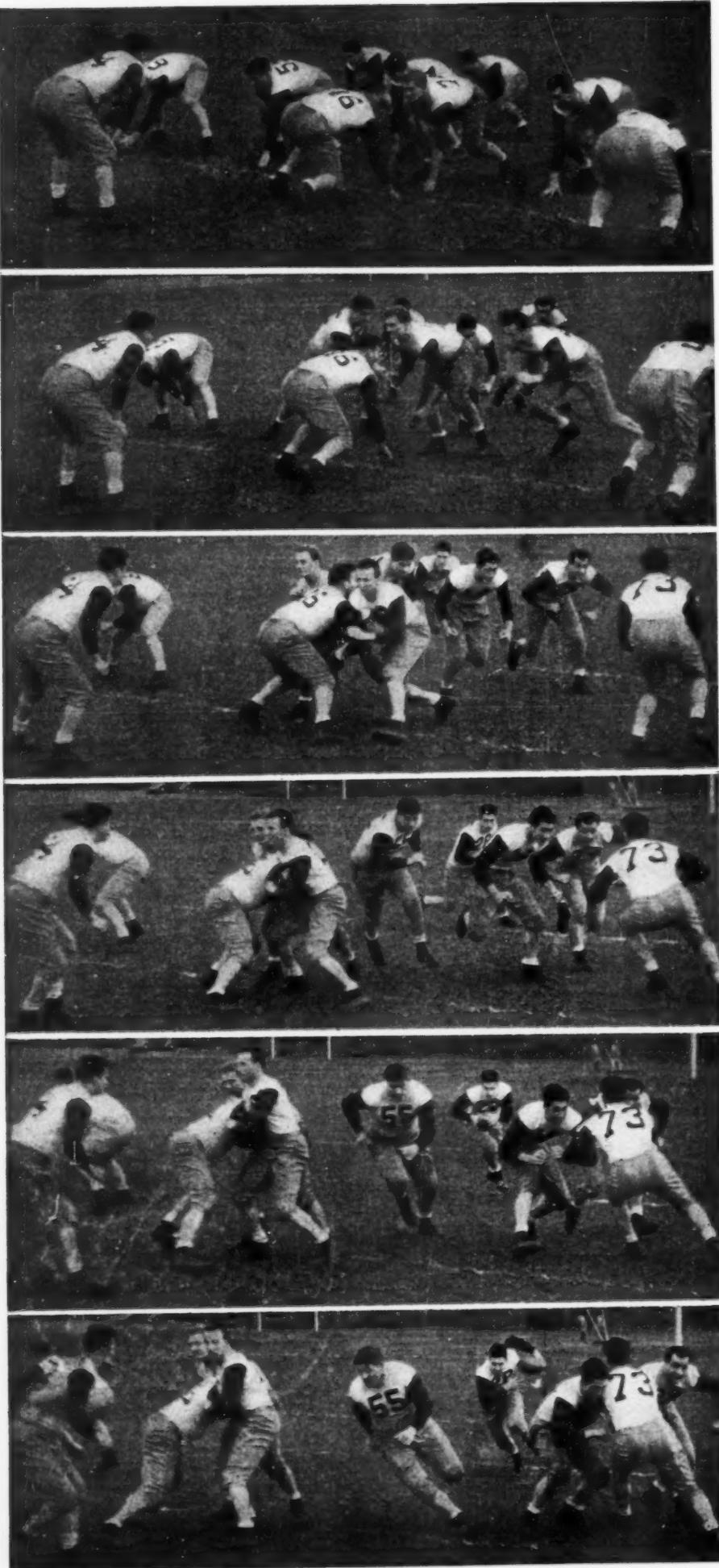
However, he can be used effectively as a trapper. His bulk alone will usually suffice to screen off the opponent until the carrier goes by.

Both backs and linemen employ three-point stances. The backs touch the ground very lightly with their fingertips, as you may observe in the action sequence on page 12.

The linemen assume normal three-point stances with one foot back, depending upon the direction



Penn's famed reverse with the wingback running or passing. All-American Minisi on the wing, a great runner and left-handed passer, made this play doubly as effective. The dotted lines indicate the players' paths on the pass. Minisi is shown executing the play on page 12.



in which they usually pull. This means our left guard lines up with his right foot back, the inside tackle with either foot back, the outside tackle with his right foot back, and the right guard with his left foot back.

The boys concentrate on the use of the arms in starting, using them in sprinting fashion. Early speed is essential. With practice, a boy can learn to start fast and run hard for short distances, and that's the chief objective in football.

We concentrate on two basic blocks—the shoulder and the cross-body. All the other blocks are off-shoots of these and once the boys have mastered the basic two, the rest will come naturally with practice.

The Penn attack is built in sequential form on the premise that the plays should start alike and end differently. Our strong-side and spin series—exactly as we teach them—appear on page 9.

We use two types of off-tackle plays. One is a fast, power, short-gaining affair with the tailback taking two steps and driving through between two double-team blocks—the end and wingback working on the defensive tackle, and the blocking back and fullback taking the defensive end.

Our second off-tackle play is a long gaining type with the tailback taking four steps and being led through the hole by the left guard and outside tackle. The four steps slow the play down a bit, but this is essential to permit the guard to get out in front of the ball-carrier.

Penn's practice schedule is a flexible affair based on the particular needs for the week. It runs exactly 80 minutes per day and is adhered to religiously.

We are proud of the fact that during the past ten years, every practice has been started on time and, just as important, finished on time. We insist that the kids arrive

SHORT-GAINER OFF-TACKLE

A power dive with the tailback taking two steps and driving up between a pair of double-team blocks. Penn's All-American halfback, Skip Minisi, is shown demonstrating the play. The double-team blocks are clamped on by the end and wingback (working on the defensive tackle), and the blocking back and fullback who take the defensive end.

That big powerful running tackle (No. 55) leading Minisi through the hole is All-American George Savitsky. He is charged with mopping up the near line-backer.

Penn also employs a long gaining type of off-tackle play in which the tailback takes four steps and is led through by the left guard and outside tackle.

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on time and we cooperate by seeing that they get home on time.

We give them 80 minutes of work, no more, no less, with the last 20 minutes always being devoted to team signal drill.

The coaching staff spends a morning deciding:

1. What the team needs most.
2. What the various individuals need most.
3. What plays must be added to meet the defense of the coming opponent.
4. What defensive maneuvers must be adopted to stop the opponents' offense.

The practice schedule is arranged accordingly. We make extensive use of movies in our program, especially to reveal the mistakes made in previous games.

In addition to scouting our opponents, we also scout ourselves. Our freshmen coaches are assigned regular scouting duties against us. We want to make sure our quarterbacks are keeping out of ruts in their selection of plays and that our defensive quarterbacks—the centers—are mixing their defenses well.

Football is definitely a teaching situation and we coaches have a wonderful opportunity to inculcate many worthwhile traits. We should also remember that football is a game and should strive to keep it that way.

Discipline is essential only as a means to an objective. No kid should be publicly disciplined. Whenever a boy falls out of line, he should be disciplined quietly. It doesn't have to reach the newspapers.

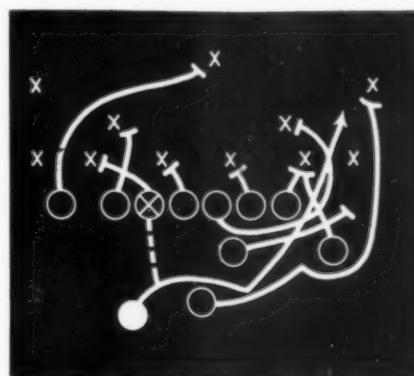
Boys who refuse to go along with our program are dropped from the squad. For less serious infractions, we will bench a boy for a game. Not playing a boy is the best disciplinary weapon a coach possesses. Every boy loves to get into the game.

When you develop boys who want to play, who love the game, and who have a burning desire to win, you won't have many disciplinary problems. The boys will have too much pride in the team and the school to break training rules.

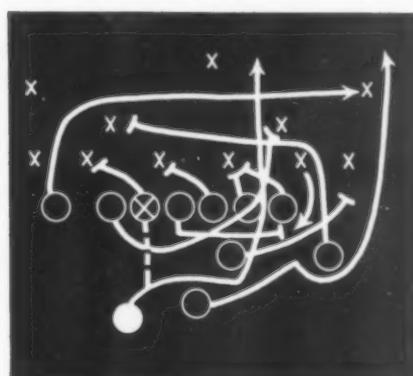
Rah rah stuff, you say? Sure, and what's wrong with it? One of our fondest memories at Penn is of two 26-year-old ex-G.I.'s, hardened vets, who, after years of miserable privations, hardships, and ducking bullets, socked one of their teammates for daring to sneak in a smoke during the football season!

Turn to pages 12 and 13 for picture sequences of Penn's method of handling the ball (spin series).

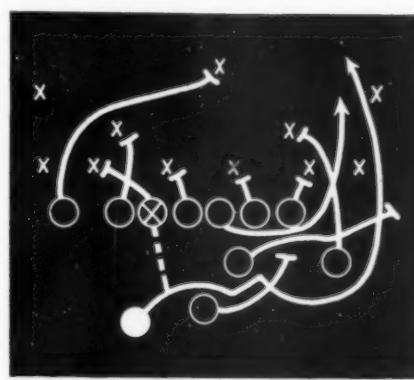
STRONG-SIDE SERIES



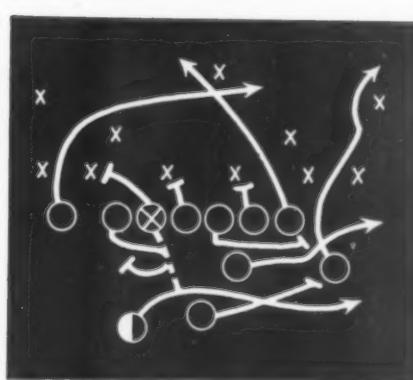
OFF-TACKLE



TRAP ON TACKLE

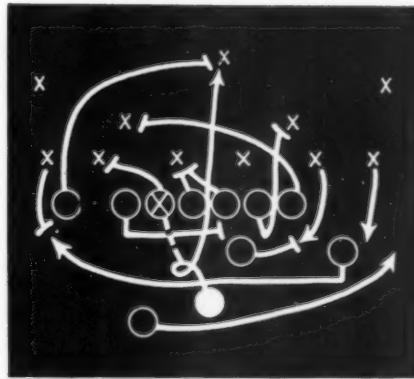


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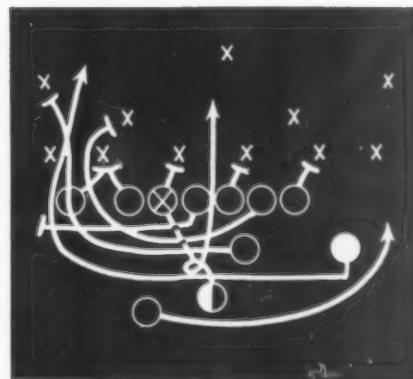


PASS OFF SWEEP

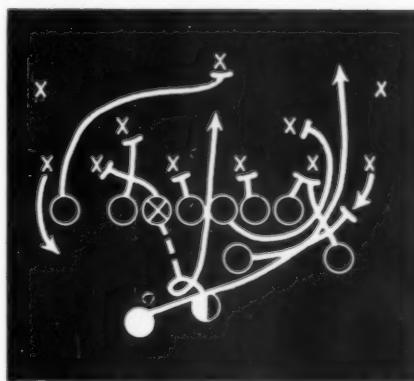
SPINNER SERIES



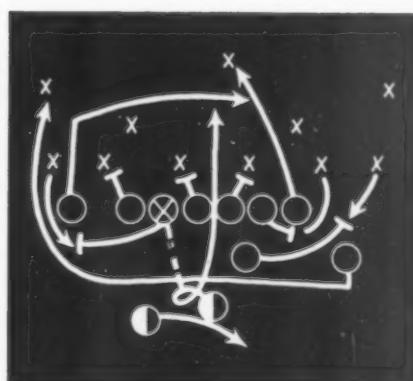
TRAP ON GUARD



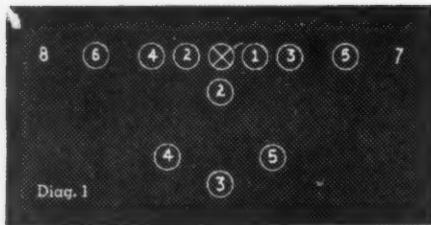
SPIN OFF TACKLE



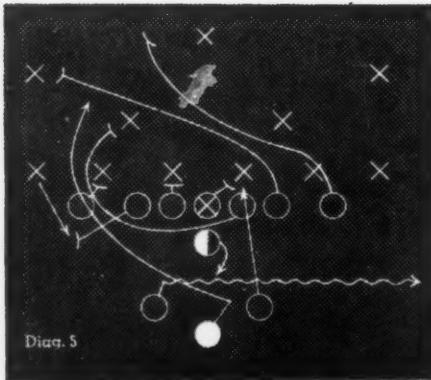
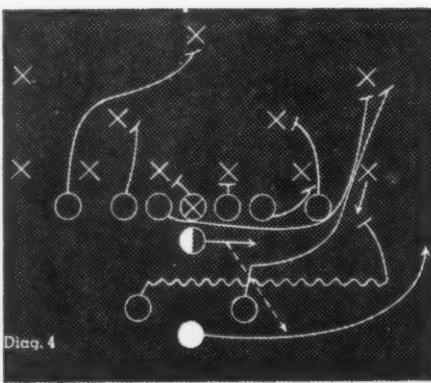
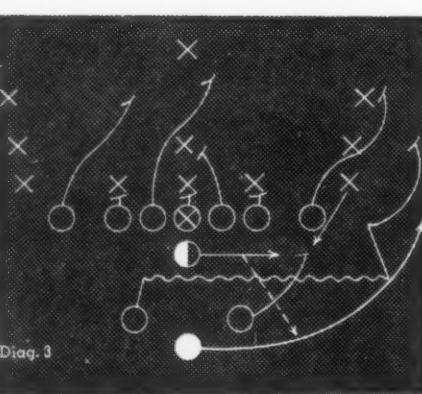
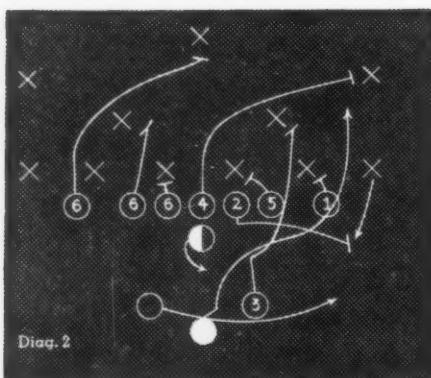
REVERSE



SPIN PASS



By STANDARD LAMBERT



Jess Neely's T

A GOOD, sound, imaginative coach, Jess Neely, the Rice T merchant, lays nothing to chance. While teaching his boys the intricacies of his offense, he keeps a careful eye on the fundamentals. Any time a player exhibits a weakness in blocking, for instance, he will run a play over and over again until the boy gets the hang of his particular assignment.

Neely numbers his offensive linemen and calls the play over them. The first digit indicates the ball-carrier, while the second digit connotes the offensive lineman over whom the play will go (Diag. 1).

The snap number is called in two ways. If nobody is in motion, a single digit is employed. With a man in motion, a double digit is used.

The play "35 on 5," for example, indicates that the No. 3 back will carry the ball over the No. 5 lineman with nobody in motion. Call "35-44" indicates the same play with the 4 back in motion and the snap on the fourth count.

With a man in motion, the snap number also indicates the type of block to be employed by the flanker. Here are the keys: Nos. 1 and 2, not used; 3, block end out; 4, block near halfback; 5, block end in; 6, block downfield from the wingback position; 7, set outside defensive end and block him in; 8, go five to eight yards behind line of scrimmage for a lateral or forward pass.

After instruction and practice on fundamentals, Neely starts building his offense. He teaches fundamentals and play situations at the same time.

For example, he would build his "55" play in this manner:

First comes the block on the key man which, in this case, is the tackle. Neely doesn't leave this fundamental until the blocker is doing a pretty good job. He then adds the defensive left end in order to make it easier for the blocker. A ball-carrier goes both inside and outside the end. The boys practice this until they have it pretty well mastered.

The linebacker is added next—passively at first then gradually with pressure. The next step is adding the defensive left halfback, then the defensive left guard, etc., on down the line.

Diag. 2 illustrates the order in which each step is taken up.

Every play is presented, illustrated, and built up in this fashion.

One of the greatest advantages on the T, says Neely, is flexibility. A coach can adjust the blocking assignments in this formation easier than in any other.

On the 5-play, for instance, the No. 3 and No. 5 linemen (tackle and end) have two ways of blocking the defensive end and tackle. If the defensive tackle is playing head on with the offensive tackle, the latter may take him in while the end is taking his opponent out.

If the defensive tackle is playing wide, the offensive tackle and end may cross-block, with the tackle working on the defensive end and the offensive end crossing on the tackle.

The flexibility of the T is further illustrated with the "37" play. On 37-44 (Diag. 3), the flanker blocks the halfback. On 37-45 (Diag. 4), the flanker blocks the end.

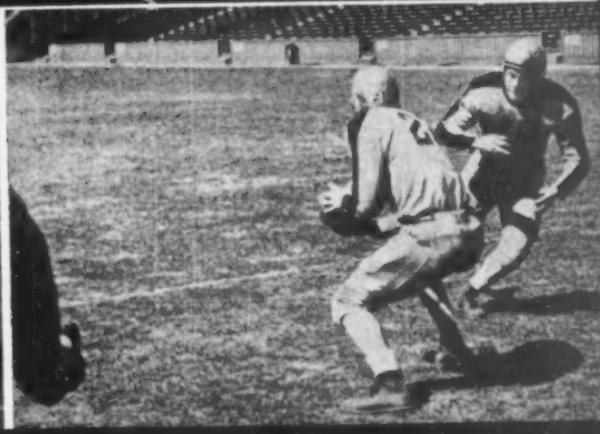
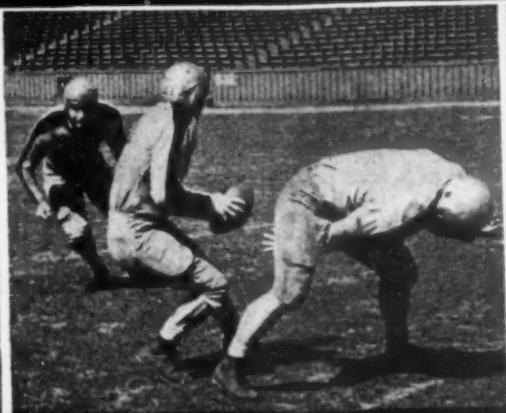
The addition of a letter may make a new play. On 56-counter-44 (Diag. 5), the fullback carries the ball. On 56-counter F-44 (Diag. 6), the fullback fakes by and the right half carries. (See page 18.)

The flexibility of the T is still further illustrated in Diags. 7-9 which show three different ways in which the 5 play may hit the same hole.

Diag. 7 outlines play 35-H-43; Diag. 8, 45-H-43; and Diag. 9, 35-44.

Besides being a skilled defensive analyst and a smart tactician, the Rice coach is recognized as one of the soundest fundamentalists in the game. In view of this fact, the student coach who misses Neely's lecture on the organization of practice is missing much of the meat in a Neely course.

(Concluded on page 18)



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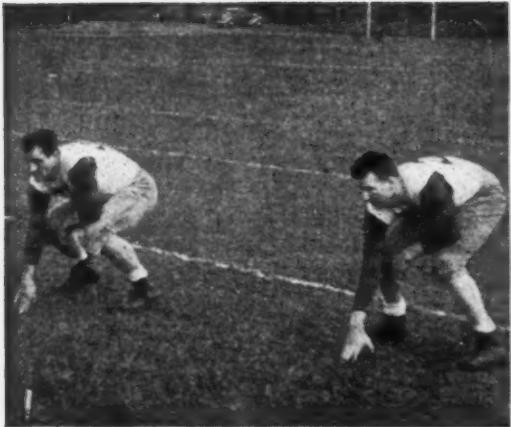
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COACH

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REVERSE

Upon receiving the snap, the fullback, Luongo, pivots on the balls of his feet and swings his right leg across. He fakes to the tailback, Deuber, then steps toward the line with his left foot, bringing him



FULL SPIN

The ball is again delivered to Luongo who makes the catch and spins at the same time. He swings his right foot over and fakes to the tailback, as before. He then steps with his left foot toward the line, bring-



JUMP PASS

This time the ball is passed directly to the tailback who cross-steps with his left foot and starts out as if on a sweep. But, upon reaching Minisi coming around, he hands off the ball. Minisi, a fast shifty

It's Spin Series

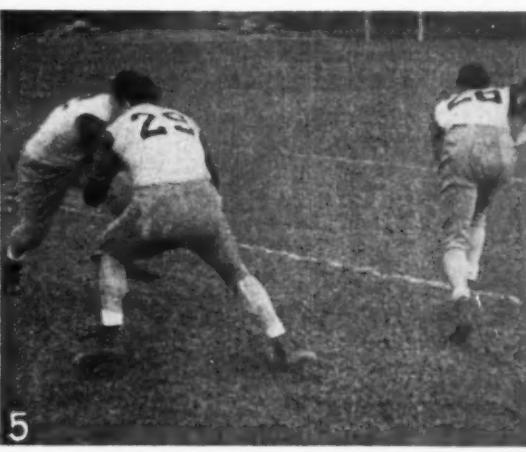


EXCLUSIVE SCHOLASTIC COACH PH

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into position for the actual handoff to wingback Minisi. As Deuber races off, faking a hip carry, Luongo slips the ball to Minisi. Note that Luongo does not follow the pass with his

eyes, but continues spinning into the line. All three players remain close to the ground, concealing the handling of the ball. (For diag. of play, see Reverse in Spin Series, page 9.)



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ing him into position to work with wingback Minisi coming around. This time Luongo fakes to the wing, cradles the ball over his stomach, and spins into the line, taking his first step

with his right foot. By staying low and covering up with their arms, the players present a confusing pattern to the opponents. (For diagram, see Trap Play in Spin Series, page 9.)



runner and a great left-handed jump passer, now represents a decided threat. In this instance, he has chosen to pass. Note how beautifully he brings the ball back and how nicely,

he maintains balance. The play is outlined on page 7. In all these sequences, it is interesting to note that the ball-handler keeps both hands on the ball as long as possible.

Sacro-Iliac Injuries

By DR. RALPH E. DAVIS

ONE of the most common and harrowing of athletic injuries is the simple low back strain originating in that vital area of the body called the sacro-iliac region.

The impairment of the unseen sacro-iliac joint greatly reduces the efficiency of the athlete, sometimes in very insidious ways. Many a missed extra point in football, for instance, has been due to a strained condition of this joint.

The sacro-iliac, in lesion, may impair the muscular coordination of the kicking leg and hip, thus causing the ball to veer to either side. Sometimes the lesion may affect the entire body structure.

Several years ago, an All-American was sent to me for care. A knee injury sustained early in the season had kept him out of most of the games.

Upon examination, however, I discovered that the major difficulty stemmed from a serious sacro-iliac lesion that was causing a terrific pull of the sartorius and rectus femoris muscles attached from the pelvis to the inner side and front of the knee.

Upon correction of the sacro-iliac strain, the player's knee immediately responded to treatment. A sacro-iliac belt was applied to hold the joint in fixation, and the

following Saturday the boy played nearly the entire game—contributing to his team's 10-point victory over their toughest opponent.

Many other interesting cases could be cited which stress the importance of a correct alignment of the sacro-iliac in relation to the normal functioning of the body.

Fatigue, for instance, is often the result of a tenseness in the upper back muscles. This lowers both the player's and the team's efficiency, and many times contributes to the failure of a potential championship team.

Supple muscles are the ideal. Show me an All-American and you have flexibility plus.

Before delving further into a discussion of injuries, let's get a clear picture of the all-important sacro-iliac joint, a subject much talked about but little understood.

The sacrum is a wedge-shaped curved bone that forms part of the pelvic ring, somewhat the size and shape of the hand in a slightly flexed position. The ilium bones articulate on each side of the sacrum and unite with the pubic bones in front to complete the pelvic ring.

The sacrum has four foramen (openings) on each side where nerves come directly from the spinal cord and unite with the fifth lumbar nerve to form the sacral and pudendal nerve plexes.

The sciatic nerve originates at these plexes and continues down the back of the legs to furnish nerve supply to most of the leg muscles. Hence a strain at this area decidedly affects the circulation to the legs.

The sacro-iliac may be called the universal joint of the body. There is a swivel side-to-side action of the fifth lumbar vertebrae on the sacrum, and a sliding, cushioning, shock-proof action at the articulations on each side with the ilium bones.

The severe strain of a block or tackle may easily put the sacro-iliac in lesion. What happens then? The strain causes a contraction of the muscles and ligaments on one side or both, throwing the pelvis in a twist, as in Figure 1.

Thus the upper body, or motor, is called upon for more energy to compensate for the malalignment

DIAGNOSTIC TESTS

Figure 1

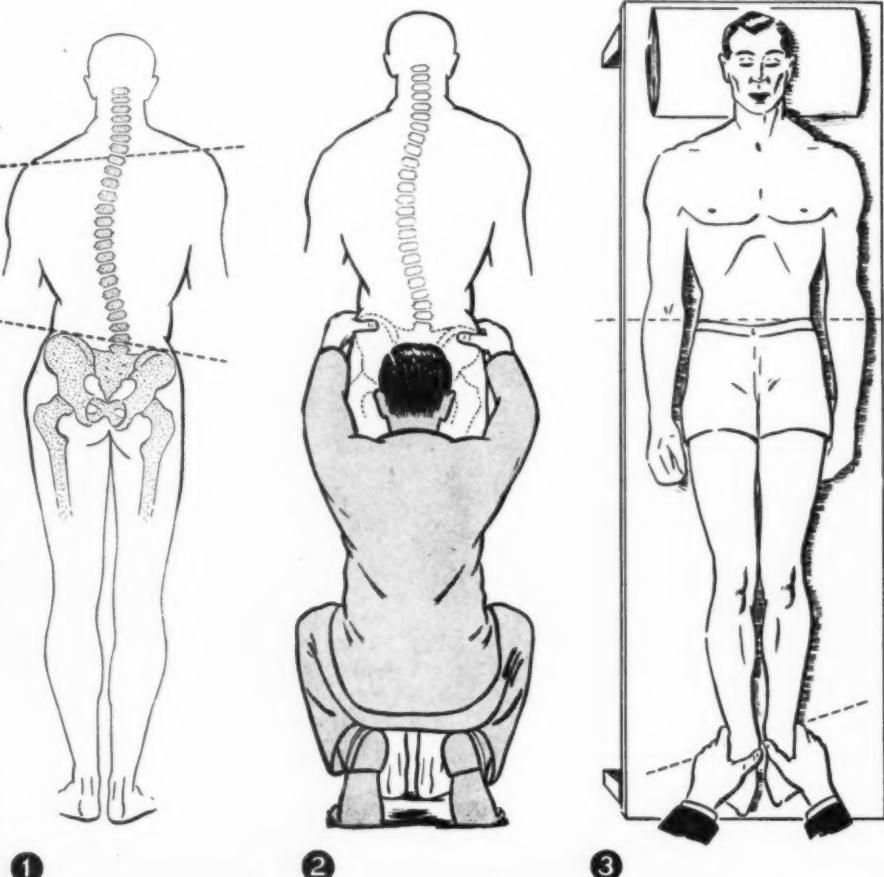
Showing the pelvis in twist, a condition which throws the upper back into figure S shape, the high shoulder being on the short-leg side.

Figure 2

From a squatting position, place the hands horizontally on the crest of each hip to examine for sacro-iliac strain. In this particular case, the test reveals a short right leg, indicating a sacro-iliac strain or a natural short leg.

Figure 3

Stretch the player on a training table and place the thumbs on the ankle bones. The test here reveals a short left leg, indicating a sacro-iliac strain or a natural short leg.



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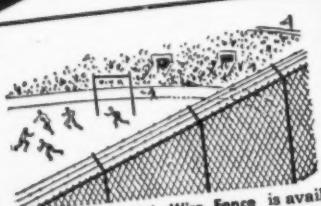
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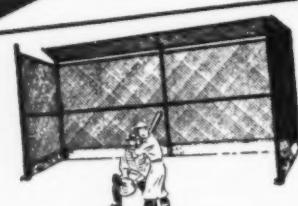
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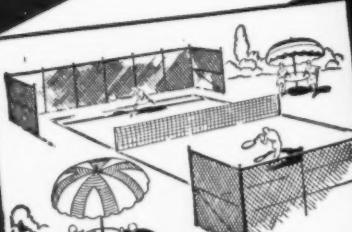
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produced by the sacro-iliac strain. In turn, the legs, or drive shafts, are in a lower resistance due to the pull and strain of the muscles and ligaments attached from the pelvis to the legs.

The athlete who wears cleated, spiked, or suction-soled shoes, with their quick starts, sudden stops, quick pivot turns, and slides, throws an extra burden on the already strained muscles of the legs, leaving the player more susceptible to injuries such as charley-horses, knee and ankle injuries.

The drain on the player's body, in turn, may impair his coordination and efficiency from 10 to 35 percent.

The greatest percentage of sacro-iliac strains go unnoticed to the player and coaches because there often is no pain or outward appearance of injury. The lack of pep, efficiency, endurance, poor coordination and timing, and aches in the lower back may be the first symptoms of a strained sacro-iliac. The entire squad should be checked before and after every game and scrimmage for possible strain at this joint.

Figure 2 shows one way of checking the players for sacro-iliac strains. This merely involves the placing of each hand horizontally on the crest of the hip bones. If one hip bone is higher than the other, it may be assumed that the sacro-iliac is in strain.

Another way to check is shown in Figure 3. Have the player lie in a prone position on the training table. With a thumb on each internal malleolus (ankle) bone, stretch the legs gently. If the legs are not equal in length, there is an indication of a sacro-iliac strain.

If such a condition exists, the man should be immediately referred to the team physician for correction and treatment. Standing x-ray films, where possible, are recommended for a more complete structural analysis. An early diagnosis always affords an easier and quicker response to treatment.

Recommendations advantageous to every athlete include: the placement of a one-fourth to one-half inch plywood board under the mattress; the use of straight-backed chairs; and the avoidance of poorly constructed car seats, picture show seats, and softly cushioned lounge chairs.

Hip pads offer little support to the sacro-iliac joint. I strongly prescribe for all athletes a firm sacro-iliac belt that supports the pelvis against shock, strain and injury.

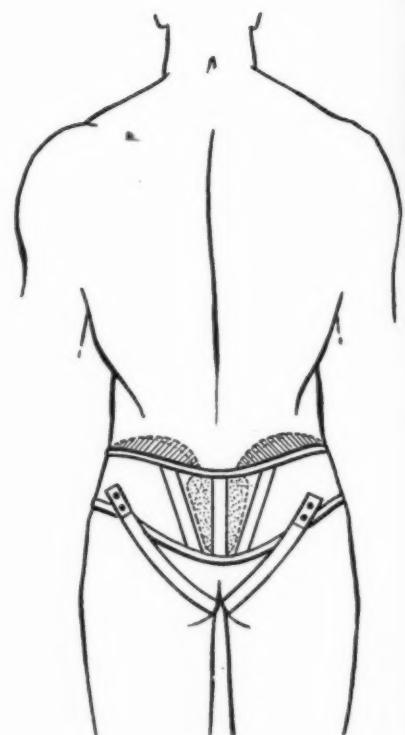


Figure 4

A belt which supports the sacro-iliac joint and still provides the freedom of movement essential in athletic activity.

The prize fighter tapes his hands to support the muscles, ligaments and bones from strain and fractures. It is just as important to protect the player's pelvis by supporting the sacro-iliac joint with a firm, strong belt pulled snugly in place.

As shown in Figure 4, the pelvic area is fitted with a sacro-iliac belt which prevents sacro-iliac strains, lessening the possibility of shock, low resistance, inefficiency, fatigue, ankle and knee injuries, charley-horses, and other athletic impairments.

The elimination of these strains will not only make better players, but will help reduce permanent disabilities. This fact alone gives the player increased confidence in making blocks, tackles and runs.

The least a coach can do for his boys is to eliminate all possible physical handicaps and reduce the injury menace to a minimum. So why not start by anticipating probable sacro-iliac strains, preparing the athlete against these potential injuries, and arranging for early and efficient treatment when such injuries do occur. Every player will then be able to contribute his best.

During the past 20 years, Dr. Ralph E. Davis of the Milwaukee Osteopathic Clinic has worked with the Chicago Bears, Chicago Cardinals, Marquette U., Wisconsin U., Carroll College, and 10 high schools in Milwaukee. A specialist on the sacro-iliac region, he is the founder of the famous Pro-Belt.

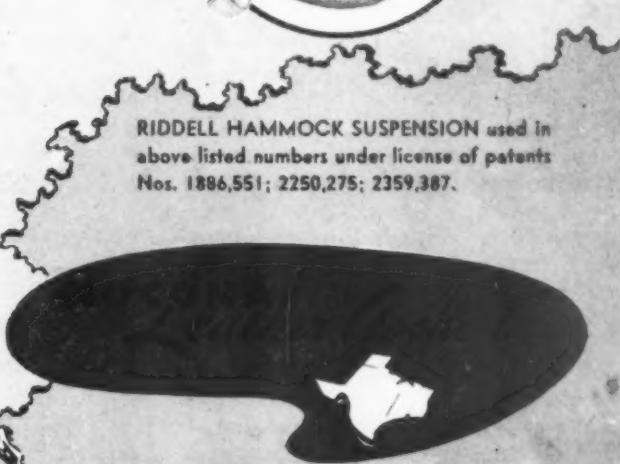
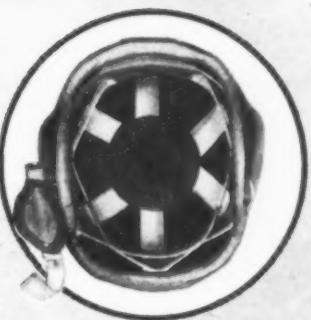
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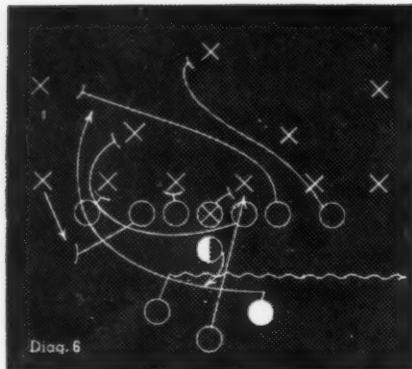
3WAL—Outside entirely covered with leather.

3WA —Vulcanized molded fiber, uncovered.

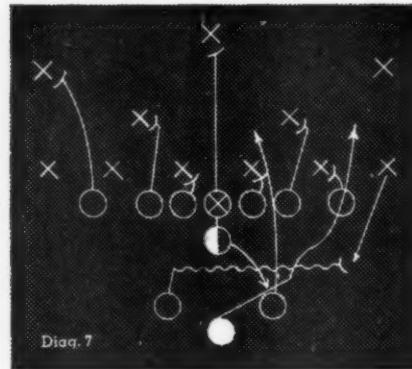


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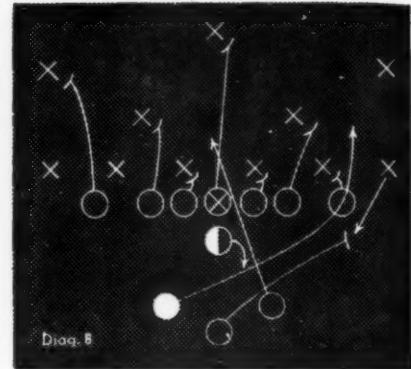
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Diag. 6



Diag. 7



Diag. 8

Jess Neely's T Formation

(Continued from page 10)

Rice works out from an hour and a half to an hour and forty-five minutes per day. Neely operates on the theory that a boy can work that long at top speed, and that when he is not going at top speed he is not accomplishing much and may be forming habits that are not conducive to good football.

The Owls get on the field at 3:00 and report immediately to their respective coaches. A sample of the general program follows:

3:00-3:15: Calisthenics to develop the muscles of the knees, shoulders, back, abdomen, neck, and ankles, given by coach in charge of each group. Backs and ends work on some fundamentals such as dodging, etc. Line works on pull-outs.

3:15-3:30: Blocking. Backs, stance and form; Ends, blocking tackles and downfield blocking; Line, 1-on-1, 2-on-1, 3-on-2, etc.

3:30-3:45: Tackling. Backs, position, approach, form (backs tackle higher, make six to eight per day); Line, tackle lower than backs.

3:45-4:00: Backs and Ends, pass offense and defense; Line, protecting the passer.

4:00-4:10: Everybody comes together and works on passing as a unit.

4:10-4:45: Signal drill for all.

4:45: Showers.

A sampling of Neely-isms:

"Fundamentals are just as important in executing plays from the T as they are in the single wing. We spend just as much time on offensive fundamentals as we did before . . . It is almost impossible to over-stress them in building an offense, regardless of the formation used . . .

"We have found the Crowther blocking machine one of the finest aids available in teaching the shoulder block. Players should practice, practice, practice and practice the fundamental of blocking until it becomes part of themselves . . .

"Backs who do a good job of faking make the blocking in the T very simple. Good faking in the T is just as important as good blocking . . . An offense should be well-balanced with just as much power to one side as to the other . . .

"I have often heard that the ball-handling in the T is much more difficult than in the single wing. I have not found this to be the case . . . I have also heard that the T is not strong inside the opponents' 10-yard line. But even with the single wing, I found the going pretty rough inside the 10. I feel that I have had just as much success with the T as with the single wing in that territory . . .

"There are four can'ts we stress to our men: We can't have a punt blocked; we can't have a pass intercepted; we can't allow a long run by pulling out of position; we can't fumble the ball . . .

"I believe it is better to have one defense with variations than to employ several defenses. I am partial to a six-man line . . . We want our team to be accustomed to meeting any defense. The team that feels prepared to meet any defense has been instilled with the proper confidence . . . One of the first principles we give our boys in teaching pass defense is for every boy

to break toward the ball when it is thrown, regardless of where it is thrown . . . We tell our linemen they are just as much a part of the pass defense as the backs. Anytime a pass is thrown for more than 25 yards, it is entirely the fault of the rushing linemen . . .

"Putting a man in motion is the worst thing that has ever happened to defensive football . . . I think that the best pass defense is one in which certain flats are left open from time to time and in which all six men rush with all their might.

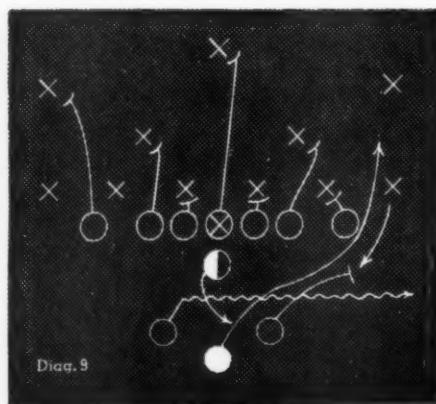
"It is a mistake to do all the defensive work against passes in the middle of the field . . . The principal of planning the pass defense so that any completions are made in the flats and just over the line of scrimmage is sound except when the defensive team is backed up against the goal line. As the offensive team approaches your goal line, it is important to try to stop their short passes . . .

"I think of my kicking game as an offensive weapon. The ten yards gained by kicking are just as important as any ten yards made by running or passing . . . We quick kick a great deal and believe that the quick kick is just as important a play as any off-tackle play or end run . . .

"The finest sport in the world has been entrusted to us. It is our duty to keep it that way. No other course in school will do as much toward preparing a boy to meet the problems he will encounter in later life. Most boys are fine and clean and are not prone to play dirty football. Let's keep them thinking and acting in that manner.

"A coach should compliment the officials when the game is over. It is very difficult to get good men in the officiating profession; so let's make the profession as pleasant as possible . . ."

Standard Lambert, Austin (Tex.) High School's great football coach, is Scholastic Coach's favorite Lone (Star State) ranger. He gleaned these Neely-isms at the Texas High School Coaches Assn. coaching school last summer.



Diag. 9

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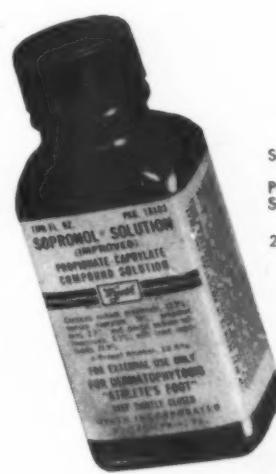
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1. Arch. Dermat. & Syph. 56:601, 1947.



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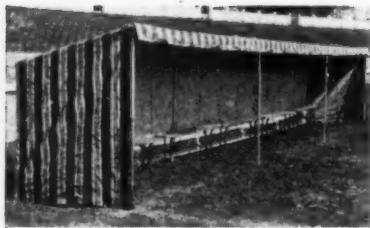
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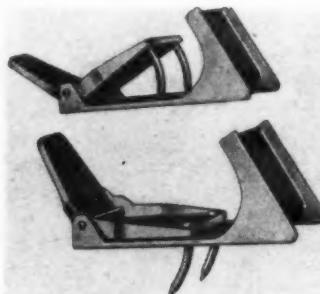
• **RUBBER BASKETBALL.** One of the new line of balls being manufactured by the Ohio-Kentucky Mfg. Co., this ball is official in size and will give exceptional wear on outdoor courts. New pebble finish assures easy handling. It feels like leather and looks like leather.



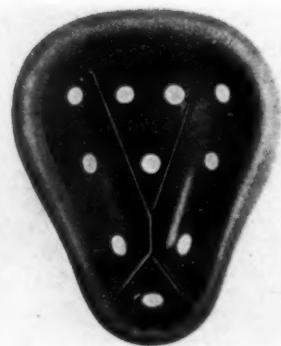
• **SIDELINE CAPE.** Butwin Sportswear Co.'s new reversible grid garment is attractive, warm, lightweight, and practical. Reversible, with 24-oz. wool on one side and tan windproof, water-repellant poplin on other. Two large tunnel pockets on each side; zipper hood.



• **RESIN-BONDED RACKET.** Developed during war for tropical climates, the Cortland Line Co.'s resin-bonded process welds multi-ply hardwood laminations into a sealed bond that makes an exceptional all-weather tennis racket frame. Gives extra protection against warpage.



• **STARTING BLOCK.** Outstanding features of the Miller Co.'s latest device are a no-slip surface on the toe blocks and patented "sure hold" track grippers. Made of aluminum-alloy, the device will be marketed as the Mercury Starting Block and is light and rigidly constructed.



• **CUP PROTECTOR.** Molded from rugged Tenite, Bike Web's new cup offers the last word in complete, comfortable protection. Shock of blow is distributed evenly and absorbed by porous rubber cushion. Bruises are completely eliminated. Best suited for Bike Cup Supporters.



• **PRO-CAP TAPE.** introduced by Seamless Rubber Co., contains fatty acid salts which reduce irritation, improve adhesiveness, enable tape to be left in place for long periods, and help tape stand up better in various temperatures and degrees of humidity.

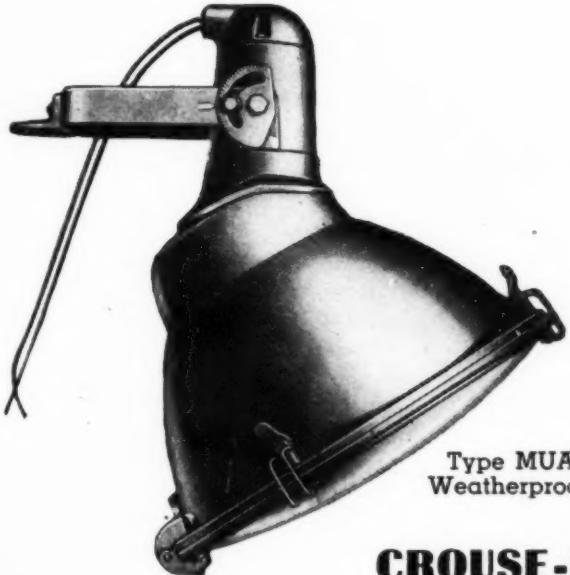
• **ARCH-SUPPORT BASEBALL SHOE.** The Brooks Shoe Mfg. Co.'s heel spike arch support shoe meets the demands for a shoe that reduces arch, foot and leg fatigue. The only shoe made with an orthopedically correct rigid arch support which provides full sole flexibility.



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Can Character Be Developed?

By ANDY J. ZEBERL

CHARACTER is difficult to teach. Most behavior stems from the emotions, and it is a herculean job to channel these subcutaneous factors into a state of good character.

The task of influencing character is further complicated by poor social conditions. Today, for example, we have to contend with every emotional bugaboo unloosed by the war, such as racial and religious intolerance, social maladjustments, whole nations restless and on edge.

These and many other problems present a challenge to all of us. The home, school, church, and factory present daily situations in which the emotions are tempered and in which the reason meets conflict. The fears and pressures thus aroused form the background on which we must focus.

We must realize that times change, that new interests arise on one hand which cause a lack of interest on the other. These conditions make character education an illusive, intangible, involved undertaking; so that one can't help wondering whether character can ever be influenced in the direction of good.

We are living too close to the border line. Even our preconceived moral standards are judged on a negative rather than a positive basis. The tendency is to think of a person not in the sense of having good character but of having bad character.

How do we, as physical educators, ordinarily meet this challenge? Most of us are set in our approach to character. We feel we have done pretty well in managing our lives and tend to say to youth: "I am going to see that you have an easier time than I had."

But in relation to character, we really mean, "What has been and is good enough for me is also good enough for you." We are satisfied that our conception of character, based on our own life, is the type youth needs.

The standards we live by as adults do not hold for youth. Each generation and each individual has a different interpretation of character. We should recognize the fact that the child must and will devel-

op as an individual, and that the best we can do for him is to give him the help he needs until he can be on his own.

We must become more aware of the opportunities through which we can accomplish results; make the best use of them, then hope that the type of character which evolves is the one best suited for the existing society and which will also tend to improve it.

A few of the many opportunities afforded in physical education might be pointed out for the benefit of men in the field.

The physical educator usually is closer to his students than any other teacher in school. Because of this, he comes nearer to understanding the student's needs and wants. The student feels closer to him and therefore places more trust in him and expects more guidance.

In physical education activities, the emotions emerge more than in any other school unit. In tempering these emotions, the physical educator is an effective help.

THE ANGRY PLAYER

When a boy becomes angry in a game situation, he realizes he has to account to the group for any destructive expression. His playmates will brook no conduct which does not conform to the group spirit of play or to the objective toward which they are striving. The boy wants to remain on the team and to stay in the good graces of his fellow players.

Here is a spot where the physical educator can help the boy develop a correct attitude toward his opponents, his teammates, the spectators, and all other persons part of the situation. Continued guidance of the emotions in game situations will result in the establishment of proper attitudes and emotions.

Everyone expects praise and recognition. The physical education teacher who sees its value and uses it at the opportune moment, e.g., when a boy feels a thrill of

accomplishment, will be seizing one of the best teaching opportunities available to influence a youth's character.

Little notes of praise written in the margins of paper-work; brief commendations on good personal appearance during the interchange of daily greetings; kind remarks to the striving athlete—represent good means of stimulating the youth toward finer accomplishments which build better character.

Insincerity—one of the worst curses of society, shows up from time to time in the form of chiseling, cheating, getting something for nothing, and "getting by."

Here, too, the physical educator must be wary and use discretion in handling the problem. He must foresee these situations and prepare for them, even if they are few and far between. Insincerity on the part of those in authority will lead to the same practice by youth.

In squad leadership activities, opportunities are afforded to display the real meaning of democracy and democratic methods. Real life situations arise where problems are worked out by the group, so that the true significance of why one is here on earth and of his duties to those with whom he lives, is grasped firmly.

Pre-judging without understanding of color, race and religion can be combatted in many ways and places. The physical educator in his direction of activities has a wonderful opportunity to form strong character traits of understanding, honesty and fairness. He can do much to clear up the muddle of emotions caused by the dirt of prejudice.

Character entails social-mindedness. Loyalty to the group and co-operation predicated on a deep sympathy and understanding of one's fellow man, are real qualities of social-mindedness.

Through activity, the teacher can incentivize the boy to respond favorably to the standards of the group. What is more, he can influence the setting of standards so that only the best will be there to attain.

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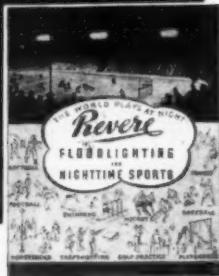
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standing of their feelings. He soon realizes he must assume a certain behavior when in certain groups and that other attitudes are in order in other situations. Under the teacher's direction, youth can more favorably work out his own approach to varying group circumstances.

Much has been written and said about the influence of associates in the formation of character. Undesirable traits exhibited in game situations are not usually tolerated, and the guilty person seldom lasts with the group.

The youth who associates with those he engages in play—play directed by the physical educator with high standards of courtesy, conduct, and cooperation—will seldom seek the company of the "wrong kind" of person.

In this connection, one also considers the influence of the physical educator upon the boy's concept of relations with girls. Physical education teachers and coaches are frequently asked pertinent questions.

Here is their opportunity to help clear up the boy's faulty ideas and propose a more normal and morally beneficial relationship. The use of student-supervised coeducational activities also tends to create wholesome attitudes. The healthier and more realistic approach to sex that is now subscribed to should receive the careful attention of everyone interested in character training.

The use of language is another vital factor. Our conduct and behavior is determined to a great extent by the meaning we attach to words. Many of us are probably still using brief emotional expressions we learned in our youth. Because we have learned to express our feelings through these words, it has been difficult to switch to more intelligent phraseology.

Words used to express ourselves in emotional situations need to be reevaluated so that youth will find and use more intelligent expression. Youth has the habit of accepting the wrong along with the right. To teach character, we must minimize the wrong.

In physical education, many conflict situations arise where youth in desperation, anger, or other moments of tension, expresses himself through adult-conceived expressions. The physical education teacher, in helping set the standards of the group, can make it clear that both the group and he will not tolerate their use.

The more conflict situations we offer youth in which to control his emotional expressions, the closer we will come to developing the best character.

In the main, character training has been centered upon moral qualities—that of influencing youth to do the right thing at the right time and to make judgments in relation to standards, other people and themselves; then acting under the direction of these judgments.

However, in our present-day world we must also try to get youth to understand the importance of the spirit as well.

We realize that this spiritual element enters into character, but we tend to avoid the responsibility of teaching it. The home and church, we assume, have that task. Yet every day we see evidence that these forces are losing their influence upon youth, that present-day conditions are overcoming the meager training most boys are given in spiritual matters.

As physical educators we should tackle this problem and do what we can to "down" it. Through activity we have many opportunities to instill a deeper and richer spiritual quality. Youth must be shown that successful living depends on more than just one's self and his fellow men; that there is always present an all-inclusive spirit which he must realize, accept and use as an integrating force in all his thoughts and actions.

WAY TO MUTUAL UNDERSTANDING

Every man has his conception of character. It is difficult to arrive at a definition which would satisfy a majority. Since no standard definition has yet been made which would apply to most peoples and situations, it is felt that recognition of an integrating and permeating spirit could be a way to achieve mutual understanding.

The moral and spiritual qualities that go to formulate character are unlimited and their relation to the myriad aspects of living have never been fully understandable. The few concrete examples given here offer but a minor enlightenment to the task of the thinking physical educator. These pointed opportunities to enrich his quality of teaching must certainly be extended.

The challenge of character training is being directed more strongly than ever toward those in physical education. In order for the potential teacher to be able to accept this challenge, he must himself achieve the better standards and then, with the continual awareness of their existence, make them known to those in the area of his influence.

It takes an individual of good character to teach character.

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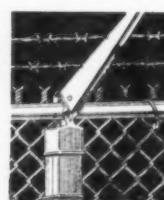
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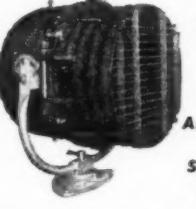
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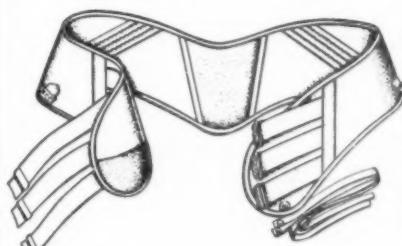
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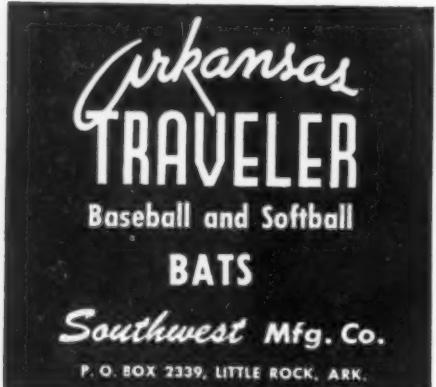
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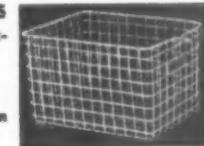
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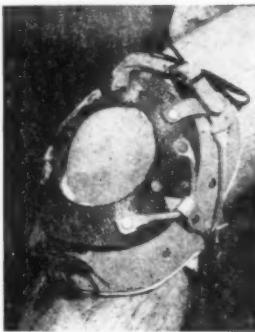
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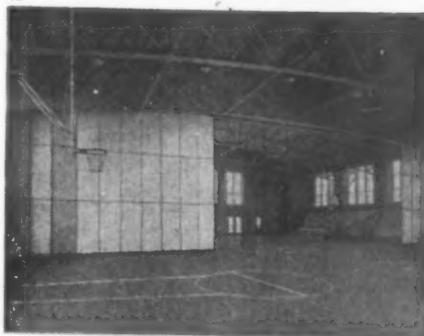
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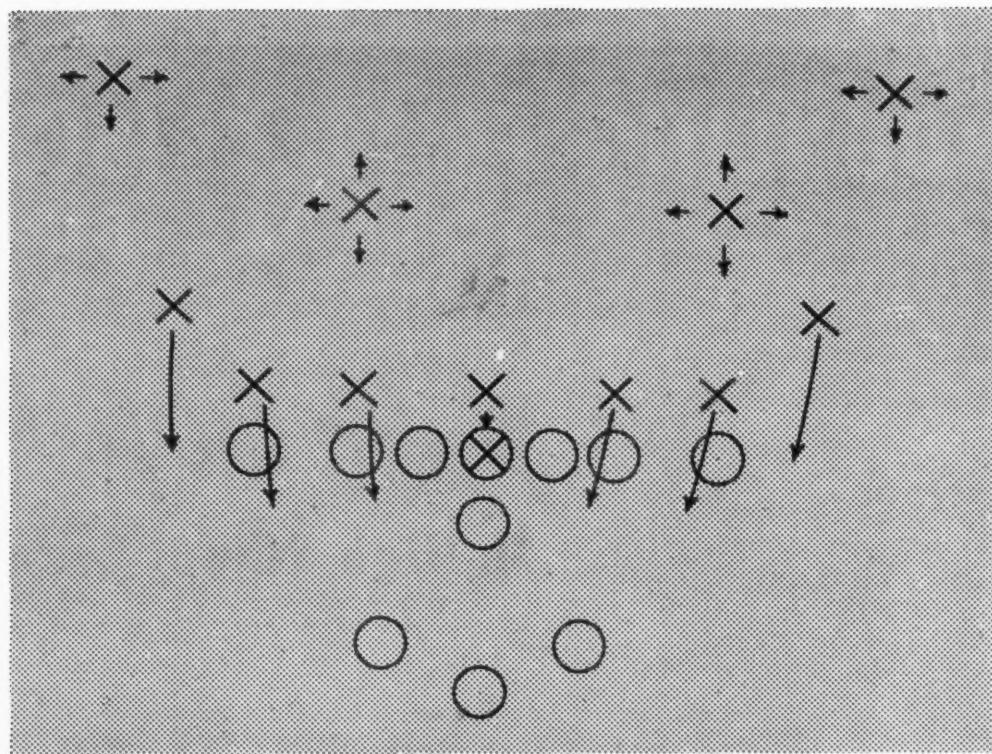
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Beat the T with a 5-2-2-2

ALTHOUGH the T is nearly ten years old, few defensive patterns have evolved which could be considered basic in neutralizing it.

That's why I believe most coaches will welcome the accompanying plan. Developed at Florida A. & M. College, it is based upon certain well-known axioms concerning the strengths and weaknesses of the T.

The strong points may be itemized as follows:

1. Plenty of power, if the line is not too separated or full of splits.

2. Excellent deceptive possibilities due to the man in motion and the indirect cycle through the quarterback. Bucking power is exceptionally deceptive.

3. Fine pass possibilities when the line is separated or the ends split. By forcing the defensive line to spread, the offense alleviates the pressure on the passer and enables the ends to break quickly into the secondary.

4. The man in motion makes the T, injecting strength to the outside and deception on runs, passes, laterals, and bucks.

5. By going in motion, the quarterback can create three new play cycles.

6. The indirect attack possesses good possibilities for fast opening plays.

By PETE GRIFFIN

The weaknesses as generally believed, are as follows:

1. No outside strength unless a man is put in motion.

2. The individual blocking with a man in motion. The blocking must be good; faking and feinting perfect; and the quarterback, the hub of the offense, strictly A. A.

3. Has only one cycle of plays and no quick-kick possibilities unless the ball is passed through the quarterback's legs.

4. Has no power off tackle.

After weighing these strengths and weaknesses, the coaching staff at Florida A. & M. devised a defensive plan against this formation. The purpose was simple—to prevent the T from exploiting its given strength and thus force it into its weak areas.

Knowing that (1) the T is strong inside tackle, (2) that the quarterback is usually the passer and ball-handler, and (3) that most of his ball-handling and passing is executed between his tackles, we decided that we could control most of the T strength if we could control this area.

We hence devised a defensive plan by which we could congest the above area with defensive men. The plan was to use a five-man line

charging fast and converging into the backfield.

The personnel of the primary line is composed of four tackles and one guard. The guard lines up directly over center, while the tackles set up over the offensive tackles and ends, as shown in the diagram.

Their charges are as follows:

1. The outside tackles charge over the inside shoulder of the ends, penetrating and converging.

2. The inside tackles charge over the inside shoulder of the offensive tackles, penetrating and converging.

3. The guard drives straight on the center. He is more cautious than the tackles who charge recklessly into the backfield. The guard tries to keep balance in order to shift right or left.

This enables us to quickly get a defensive cup in the area of the T's strength.

The second line of defense is composed of ends. They play two yards out from the outside tackles and two and a half yards back of the line of scrimmage. They charge straight ahead on the snap of the ball. Whenever they smell a pass, they fan out into the flat on their respective sides. The primary and secondary lines of defense are not disturbed by split linemen or flanking ends.

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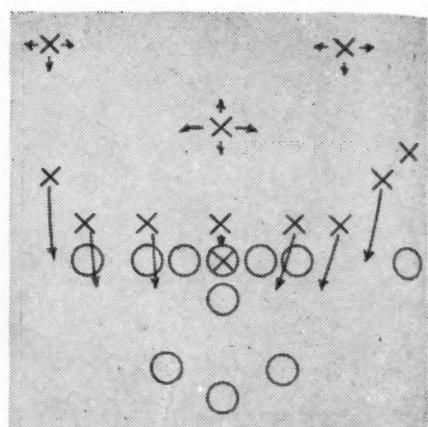
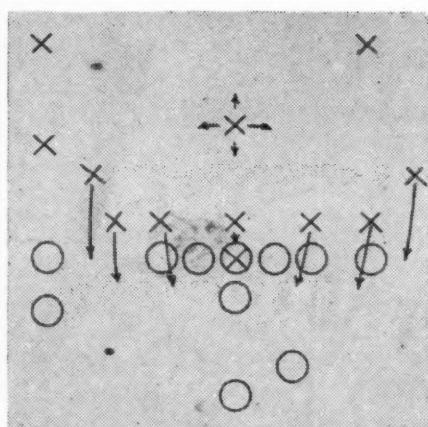
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The 5-2-2-2 against split linemen and flanking backs.

them measure their position from the center outward with outstretched arms. The man in motion may disturb the secondary, but never the primary line of defense.

The tertiary line of defense also has important responsibilities. This third wave is five yards directly behind the defensive tackles.

Their first assignment is to take one backward step when the ball is snapped and immediately go to the point of attack. They are instructed to be ever alert for short passes to the ends and passes to a delayed back over the line of scrimmage or in the flat.

If the first man out for a pass goes deep, a man on this third level covers the second man out on his side of the field.

If only one pass receiver goes deep for a pass, he is covered by one of the middle linebackers from the front and a halfback from the rear.

If an opposite end crosses shallow in front of this third wave and continues into the flat on his opposite side, the linebacker nearest the territory he enters covers him.

This third wave is constantly prepared to stop a ball-carrier who penetrates the primary line of defense.

The quadary line of defense plays ten yards back of the line of scrimmage. Each man of this fourth wave plays three yards out from the outside tackle (who is lined up on the offensive end).

Their play is similar to a halfback's in a 5-3-2-1. They come up fast from the outside to meet end runs. When one of the men on this fourth level goes in fast to meet an outside play, the other man shifts to the center of the field.

In pass defense, each of the men on the quadary level is responsible for the deepest pass receiver on his side of the field.

We will not detail any intricate pass defense patterns. However, one can see that we have three men

situated at desirable depths to protect against passes. Our pass defense varies from man-to-man to zone, and a combination of each.

Whenever a man goes in motion, a defensive man on the tertiary level covers him while the other defensive man on this level moves to the middle of the defense without varying his depth.

We cover split linemen and flanking backs in the manner prescribed in the accompanying diagrams.

A third wave defensive man nearest the area of the flanker covers the flanker. This also holds true if we find flankers on both sides.

Whenever a flanker goes out on one side, a third wave defensive man who is not covering the flanker moves to the center of the defense.

If two flankers go to the same side of the field, the men on the third and fourth defensive waves nearest the flankers cover the flankers.

If three flankers go to one side, we instruct the men on the secondary, tertiary and quadary levels to cover them.

POSSIBLE WEAKNESSES

There are many other variations that could be discussed here, but they represent the unusual. I have tried to present the basic T formation defense that we have successfully used at Florida A. and M. College.

What are the weaknesses of this defense? There may be many, but I am sure the quick-kick is one. We shift into a 5-3-2-1, of course, when the offense goes into punt formation. Against teams with a dangerous quick-kicker, we shift into the 5-2-2-2 I have described.

Robert "Pete" Griffin is line coach at Florida A. & M. College and, judging by the clarity and soundness of his article, he is strictly top-drawer.

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● THE CLARK SHAUGHNESSY T. Produced and distributed by Avis Films, Inc. Four reels of 16-mm., sound. Narration by Clark Shaughnessy and Eddie McLean. Price: In color, \$85 per reel, \$325 per set; in black-and-white, \$35 per reel, \$120 per set.

BASICALLY, this film is designed as an instructional medium for high school and college coaches and players. Written, photographed, and edited under the immediate supervision of Clark Shaughnessy, it answers the questions about the T that coaches and players always want to know:

"How is it done?" . . . "Why is it done?" . . . "When is it done?"

There can be no disputing Coach Shaughnessy's position as the authority best qualified to answer these questions, and the photography and narration are carefully tailored to support The T Master's exposition of the subject.

The film, available in color or in black-and-white, consists of four reels (400 ft. each) which may be purchased individually or as a complete unit.

Reel 1 covers the Center and Quarterback; Reel 2, the Fullback and Halfbacks; Reel 3, Ball-Handling, Faking, and Man-in-Motion; Reel 4, Basic T Formation Plays.

The demonstrators are Vic Linds-kog, center; Frankie Albert, quarterback; Norm Standee, fullback; Pete Kmetovic and Hugh Gallarneau, halfbacks. These are the original T-Men of Shaughnessy's undefeated, untied Stanford team of 1940, which established the T as the most popular formation in modern football. All five of them are now outstanding pro players.

STRESS ON DEMONSTRATIONS

In analyzing their individual and coordinated play, the film makes excellent use of close-ups, slow motion, and repetition of scenes. Charts and diagrams are shown where necessary to supplement the demonstrations. But the stress remains on the demonstrations by the aforementioned T stars.

The presentation builds up progressively from individual techniques to the coordinated maneuvers of the center and backfield, with Shaughnessy's narration pointing out the vital considerations in each case.

Some actual game shots are inter-polated into each reel to punctuate the demonstrations and add entertainment. These game shots show the demonstrators in action while playing together for Stanford.

The film is a handsomely produced job and may be viewed with a great deal of benefit by both players and coaches.

(Further information on the film may be found on page 55 of the May issue of *Scholastic Coach*.)

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PRODUCED at the spring training camps of the Pacific Coast League, this splendid instructional device is believed to be the first film ever to have the various phases of the game taught and illustrated by famous players and managers.

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The manager-professors include: Lefty O'Doul of San Francisco, Casey Stengel of Oakland, Jo-Jo White of Seattle, Jim Turner of Portland, Bill Kelley of Los Angeles, Jimmy Dykes of Hollywood, Joe O'reno of Sacramento, and Ripper Collins of San Diego.

Hitting is covered thoroughly, with O'Doul, one of the greatest of all-time, teaching left-handed batting and Kelley dwelling on the finer points of hitting from the other side.

Pitching is expounded by Turner, the old Yankee fireman, who calls on another former star, Tommy Bridges, to round out the seminar.

It would be difficult to find a finer teacher or illustrator of base-running than White, the quondam Tiger fleet-foot. Jo-Jo touches on all the intricacies of running the bases, including every recommended form of sliding.

(Concluded on page 62)



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A scientific analysis which exposes the myth of the T and proves the single wing is superior in every respect, including forward passing and center play

"I'll take the Single Wing!"

LIKE most fundamental concepts of living, the T formation is closely allied to the spirit of the times. The T inherited its grandeur during the war years and, as every sociologist will attest, war years and the period following are notorious for their looseness in regard to human behavior and other elements of increased freedom.

The T formation, with its razzle-dazzle deception, swiftness, open play, and hit-or-miss conception, ties in closely with the social order. The professional teams were quick to grasp this phenomenon and helped greatly to promulgate the T. Not necessarily because it was superior to the existing systems of football, but because it was sound box office.

The colleges and the high schools followed the lead of the pros. Some for the same reason (box office), and some because they were misled. Quite a few coaches who switched to the T are now dissatisfied with it. But they continue to employ the T because it would be embarrassing to switch back to their old formation. It would be a confession of poor judgment.

This is as good a time as ever to expose the T to laboratory analysis. Let us see exactly upon what it is predicated and how sound it actually is. I believe it is not based in any way on sound, fundamental football.

ENTER THE PROS

One of the primary reasons for the T craze is its large-scale use by the professionals. Too many schoolboy coaches believe that what is good enough for the pros should be good enough for them.

They forget that the pro coaches are working with a different type of material. Most of the pros have been playing the game a long time and, without taking anything away from their ability, the longevity of their service does blunt their de-

sire to engage in hard practice sessions all week long. This is not true of the high school and college athlete, at least not to the extent that it is with the pro.

In view of this fact, pro coaches must look for an offense that involves a minimum of hard physical labor. The T formation is the answer. A few of the reasons why the T does not involve as much work and, therefore, has more appeal to the pro game, include:

1. It is based on one-on-one blocking coupled with speed and deception. Blocking is a matter of having position on the defensive man just long enough for the ball-carrier to get past. It is a block of short duration. Once the ball is advanced past the point of the block, the block loses its effectiveness.

Some T coaches claim they do not "screen" or "brush" block, but that they sustain their blocks. Sustain if you please, but little offensive ground is gained by blocking behind the play.

At any rate, there is certainly not as much labor involved in this T blocking as there is in the single wing where it is necessary for two blockers to apply and move, or hold, a defensive man for anywhere from two to four seconds, depending on the location of the hole, until the ball-carrier is past. This task involves more work than it does skill and play perspective.

The great majority of high school and college boys have the will to work, but not the skill and over-all play picture. Because of their vast experience, the pros have the skill and mental view of the play, but because of their age or the absence of the do-or-die spirit, they have not the will to labor.

The T type of play suits the pros; but for the most part this cannot be said for the schoolboy team. The superior effectiveness of double-

team blocking is thus done away with, not because it is basically unsound, but because it is not suited to the specific type of formation.

2. The second labor-saving argument for T formation is the item of interference. The ball-carrier arrives at the hole so quickly there is little time for pulling interference to lead the way. The timing of the T alone prevents this.

Most downfield blocking in the T is done by the weak-side of the line going through on the deep secondary. This is very ineffective for two reasons: First, the defensive spacing often prevents the blocker from going through the line. In other words, a defensive lineman is frequently playing on the offensive man who is to go downfield.

VAST EXPERIENCE ESSENTIAL

This does not handicap the professional so much because he will switch assignments with the teammate on either side of him. Vast experience, quick thinking, and a picture of the total play enable him to do this.

These traits are rarely found in high school and college circles. Many teams have what they call "alternate assignments," but they involve practice time not usually given them and also rapid thought.

When the high school and college boy finds himself with no way to get downfield, he usually does nothing and the ball-carrier must proceed without the benefit of advance blocking agents.

Single-wing teams are not confronted much with this problem. Most of their interference is of the pulling type which has time to get to the play hole and through it before the ball-carrier.

The second reason for ineffective downfield blocking from the T is the inability of the downfield blocker to get position on the defensive secondary before the ball-carrier

By SAM E. CLAGG



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arrives. This is especially true against defensive teams which play their halfbacks seven to eight yards back and the safety fifteen.

Where such a secondary is schooled to come up fast on running plays, it is very difficult to get interference which has gone through and across, into position to block them. This is particularly the case on plays off tackle or wider.

This nonfulfillment of downfield blocking assignments is uncommon in the single wing. The cause for failure is the human element, not the play structure. Pulling interference forms in front of the ball-carrier at the point of the play hole. This allows a blocker the maximum of interference in the minimum of time.

The lack of interference does not unduly hamper the professional, for their personnel is not the interference running type. Most professional linemen are very large and usually lack speed or maneuverability. It is natural, therefore, that they should turn away from the single wing and its all-important pulling interference.

The work element is also involved in this interference running. The pulling, the turning down field, and the open-field block, require much labor for proper execution.

It must be practiced numerous times each session. The professional personnel, even if suited for this, would not take to the task too well.

PROBLEMS OF THE PRACTICE SESSION

Since all blocking in the T is of the one-on-one type, it is necessary to practice this in group work outside of the team formation. This raises a problem. If a defensive man is placed directly in front of an offensive man and both are of equal ability, the defensive player will constantly foil the attempts of the blocker to handle him.

Without the ball and the movement of the backs, the blocker does not have the element of deception to aid him. Even when the blocker has an angle on the defensive man, defeat is more common than success.

Constant repulsion is most demoralizing to the offensive player. It results in the constant repetition of an unsatisfactory experience which, in time, may produce a defeatist complex.

It is possible that the block delivered would have been sufficient to let the back get by, but it is often difficult to convince the blocker of this, assuming, of course, the coach would want the boy to know this.

The danger in "that's good enough" type of coaching lies in a boy being satisfied with doing a half-way job of blocking. We thus find two undesirable extremes in which there is no happy medium.

In the single-wing offense, no such problem is encountered in the group blocking session. The basic two-on-one blocking results in the two offensive blockers almost always achieving their objective. It offers an opportunity for even average linemen teamed together to emerge victorious over a defensive player of superior ability. This is offensive encouragement. It is a satisfactory response. It is the achievement of a task.

DEFENSIVE CORRELATION

Now let us consider the play of the defensive man. I maintain that the use of the T weakens the defensive play of that team. The one-on-one blocking of the T offers little opportunity for good hard defensive practice. One defensive lineman is usually able to handle one offensive lineman, and thus experiences success with little effort.

It leaves him with the impression that defensive line play is not difficult. He is, therefore, at a loss when he meets the single wing offense or even a T offense with the advantage of blocking angles.

The defensive line play of a single wing team is usually superior because real defensive play has been learned under the most difficult conditions. A boy will usually perform in a game just the way he does in practice. Game day is just a test of those things learned in practice.

This carry-over value between offensive and defensive football does not greatly hamper the defensive play of the professional T teams because of their numbers and specialization. A pro team has many good players capable of playing both offensive and defensive football. They also have enough men to substitute for their weak defensive players when possession is lost.

This strength in numbers and special ability also holds true with a few colleges. But the majority of colleges and high schools must continue to attempt to produce a player with the maximum ability on both offense and defense.

THE PASSING GAME

The T is highly praised for its potentialities in the way of forward passing. But here, too, there is a great fallacy. Actually the T is poor as a passing offense.

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First of all, the passer (quarterback) must turn his back on the field and his receivers for as long as three counts in moving from the handoff at center to a point four to seven yards back. At no time before he sets for the pass can he obtain any indication of what adjustment the defense has made to cover the receivers. This orientation consumes more time.

The experienced pro passer has the perception, total play perspective, and comprehensive ability to grasp the situation. Not so the schoolboy. Many inexperienced boys make up their mind about whom they are going to pass to before the start of the play.

Luck thus plays a more conspicuous role in the completion, and in modern football there is little success with plays based on chance.

The single wing does not have this time lapse to deal with. Most single-wing passing is done by the tailback who receives the ball either direct from center or from the fullback on a spin. In either event, it is not absolutely necessary for the passer to take his eyes from the field.

Even if the passer does refrain from looking down field as a means of deception, it is only for a brief moment and the defensive development is not lost. Such is the nature of the first advantage of the single-wing passing attack over the T.

The second weakness of the T passing attack lies in its inability to get more than two long receivers without using a man in motion. The two ends are the only men in position to go out as long receivers.

FOUR RECEIVERS

The single wing has these same two ends plus a wingback. There is also some possibility of the blocking back becoming a fourth long receiver.

The question arises here, quite naturally, of the possibility of the man in motion or flankers becoming long receivers. We admit this possibility and a good one it is, but we contend that once the T puts a man in motion or flanks a back it is no longer a T formation.

These deviations in T offense are admitted weaknesses of structure. A motion man and most certainly a flanker resemble wingbacks more than they do T halfbacks.

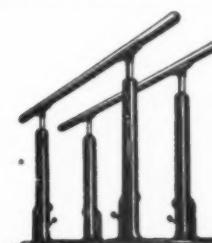
There is some evidence of T formations working themselves into single wing. Some T teams are using a direct pass series in which the ball is snapped through the quarterback to one of the halfbacks or

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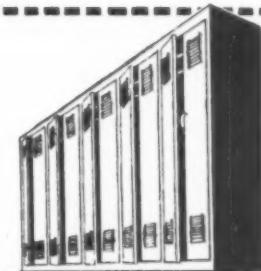
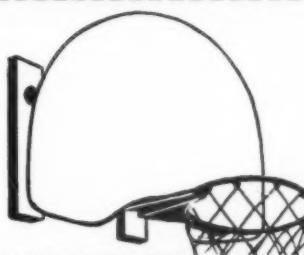
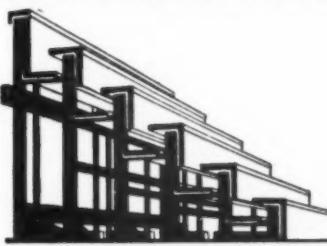
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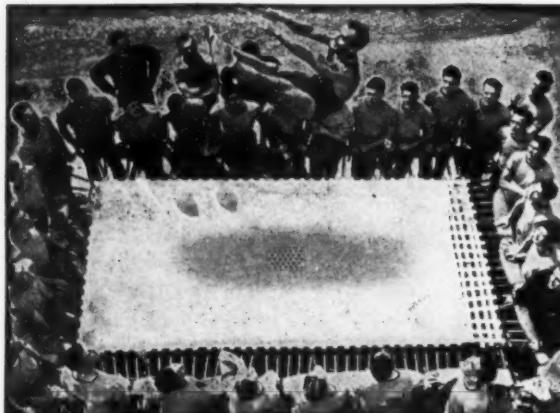
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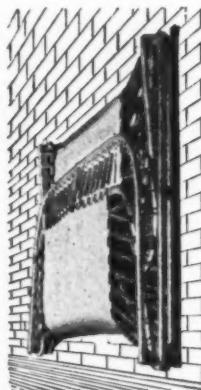
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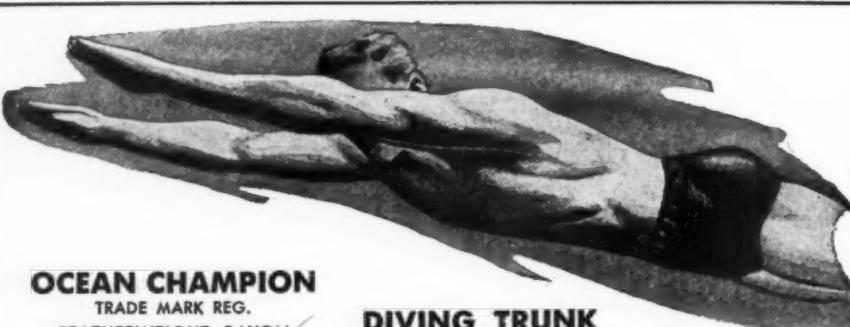
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fullback. A half or full spin by the receiver with a handoff or fake to the other two backs very much resembles the play of the single-wing full, tail and wing. This, too, shows signs of a movement back to single-wing offense.

At this point, I would also like to explode the man-in-motion myth. The T formation is considered great for flexibility. It is no more flexible than other offenses. Its unsoundness forces it to be flexible.

The T is not the only system capable of putting a man in motion or making use of flankers. Any formation can be designed for this.

True enough, motion men and flankers did not become popular until the rise of the T. But the reason is simple enough. No other formation has so many men with nothing to do that it can afford to waste a man by flanking him or putting him in motion.

While this isn't exactly wasting a man—he does attempt to serve some purpose—here again we find the T based on what the defense should or might do. A good offense is not based on how the defense will react. A good offense is one which will function, regardless of how the defense acts. It is not a chance affair.

T MUST TAKE RISKS

The T must take these chances. Since the speed of its attack limits the number of players able to get into position to function, the remainder, or unused ones, are flanked, put in motion or given impossible assignments with the hope that the defense will react in a certain way.

Good offensive football isn't based on "hope," "chance," or wasted personnel.

The professional game may well be the source of the misconception in regard to the T passing attack. Professional football is a passing rather than a running game. The pros complete many passes because they throw a lot. They spend a lot of time on the aerial game and become perfectionists in pass blocking, pass patterns, pass receiving, and receiver escapes.

Nearly every pro team has a passing artist and at least two brilliant receivers. Good passers and receivers are the most sought after and the highest paid of performers. That's why the T is, indeed, a good passing formation—as employed by the pros.

The mention of T formation passers focuses the spotlight on the T quarterback, since he does practi-

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cally all the passing. Good T quarters are not made over night. It is a task that involves years. Too often in schoolboy circles, by the time a boy becomes a good T quarter he is lost by graduation and the task of developing a new one must start all over again.

The pro coaches are not faced with this problem because they secure the country's very best collegiate T quarterbacks and make use of them for years.

THE T FORMATION CENTER

The single wing offers an advantage over the T in regard to the center position. This position is singled out because most coaches contend it is one of the strong points of the T.

Under analysis, this doesn't hold up. It is generally recognized that most T centers do not pass well for punt formation. And if there is any one time a center must function properly, it is in a punt situation.

As a rule, a player will perform best what he practices most. T centers do not have sufficient time to practice long passes. Most of their centering merely entails handing off to the quarter. As a result, T teams are subject to more bad passes from center under punt conditions than are single-wing teams.

The question logically arises as to the little chance of error in a handoff as opposed to the margin of error in the long pass back.

Here, again, wing formation wins out. The coordination between the T center and the quarter must be of the finest. If either leaves his starting position too soon, a fumble will invariably result. The amount of movement involved and the speed of the exchange increase the possibility of mechanical failure, especially since there is no time for an adjustment to be made.

In the single wing, less movement is involved and the distance the ball travels allows the receiver time for adjustment in case of error.

This also applies to fumbles in handoffs. T handoffs usually occur closer to the line than single-wing handoffs. When you remember that the defense is thus two to four yards closer to the fumble, it becomes obvious that the T team has less chance to recover.

The matter of a center with his head up and a center with his head down, offers another point for controversy. The single-wing center is supposed to be only half a man because of his head-down position.

However, while this blinds him
(Concluded on page 61)

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Coaches' Corner

Please send all contributions to this column to Scholastic Coach, Coaches' Corner Dept., 220 East 42 St., New York 17, N. Y.

When Paavo Nurmi set his 4:10.4 mile mark in Sweden 25 years ago, it was considered a fabulous accomplishment and word was flashed to every continent. American fans could hardly believe it. One pop-eyed college runner burst into a philosophy class and blurted: "Sir! Nurmi has just knocked two seconds off the world record for one mile! Two . . . whole . . . seconds!"

The professor looked at him coldly. "And how," he said, "does this distinguished Finnish gentleman propose to employ the time he has saved?"

Every big league team in captivity has an emissary parked outside the auditorium of the Robert E. Lee High School in Thomaston, Ga. Some time next week Lee's phenomenal pitcher, Hugh Frank (The Great) Radcliffe, gets his diploma and the rush to sign him will be on.

In his first five outings this season, Hugh whiffed 86 men in 33½ innings, permitted a measly 5 hits, and walked only 9. If that isn't the fanciest bunch of statistics a pitcher ever accumulated, we'll eat every pitching rubber in organized baseball.

If the big leagues don't snatch up Hugh, any one of some 200 colleges will. In addition to his incredible pitching ability, the Lee schoolboy is an all-state football end, the best schoolboy kicker in Georgia, an all-state basketball guard, and a champion pole vaulter. Probably can cook, too.

When crooks see Detective Hank Wittenberg, one of New York's finest, they run like, well, crooks. Hank is probably the world's greatest amateur wrestler. He is the only man in history to cop seven national titles in a row (191 lb. class) and has never lost a match in more than 300 tries. Despite a broken ankle, he won an Olympic berth last month with ridiculous ease. A married man with two kids, Hank owns two college degrees and has absolutely no pro ambitions. He loves his cop work too much.

Excluding foul balls, wild and illegal throws, what is the most number of pitches that can be thrown to a batter in a single time at bat? Take a little time, now, before you read the answer. Bet you guessed wrong. The answer is 11. The batter comes up with a runner on base and two out. He runs the count to three and two, then the runner is caught stealing,

retiring the side. Our hero returns to the plate at the start of the next inning and walks on two strikes and four balls—making a total of 11 throws in one official at bat.

When Knute Rockne was coaching the Four Horsemen, he devised a beauty of a play which pulled both guards as well as the center to run interference for the ball-carrier. The chap who was supposed to protect the huge gap in the middle was the quarterback, Harry Stuhldreher.

"How did it work, Rock?" asked an interested fellow coach to whom the Notre Dame mastermind was explaining the play.

"I dunno," confessed Rockne sadly. "You don't think Stuhldreher was ever silly enough to call the play, do you?"

It took a high school boy to lower the world 20-foot rope climb record at the national gymnastic championships. The boy, Don Perry, of Venice (Calif.) High, skimmed up the rope in 3.1 sec.—from a sitting start, yet.

That Western Maryland-Johns Hopkins baseball game must have been a beaut. It produced 9 errors, 28 walks, 11 stolen bases, and 2 homers with the bases loaded. Final score, 20-18, Maryland.

Joe Page may be the greatest fireman in baseball. But Ted Wilks, the Cardinals' ace relief man, is no slouch either. Before Lady Luck deserted him on April 29, Ted had gone to the well 77 times without defeat—his last setback occurring on September 3, 1945.

The guy fancied himself as a hitter and he always came up with an alibi when he struck out or popped up to the infield. One day after whiffing three straight times, he took a vicious

cut at a pitch and succeeded in pushing the ball about a yard out in front of the catcher. He was tossed out by 20 feet.

He came back to the bench muttering. But before he could say anything a teammate beat him to the punch. "We know," his pal growled. "The catcher was playing you shallow on that one."

It was third down, just a few yards to go for the first down which would set up the game's first score. A half-back drove into the line but the tackle ahead of him missed his block and the play piled up. "Joe!" a substitute screamed from the bench to the erring tackle. "Joe, you big wart-nosed baboon, block that guy!"

The Grand Old Man of Football leaped up and strode the length of the bench to confront the sub, an expression of shocked reproof in his eyes. "Lad," he said, "I'm surprised, scandalized. You know we don't use that kind of language here."

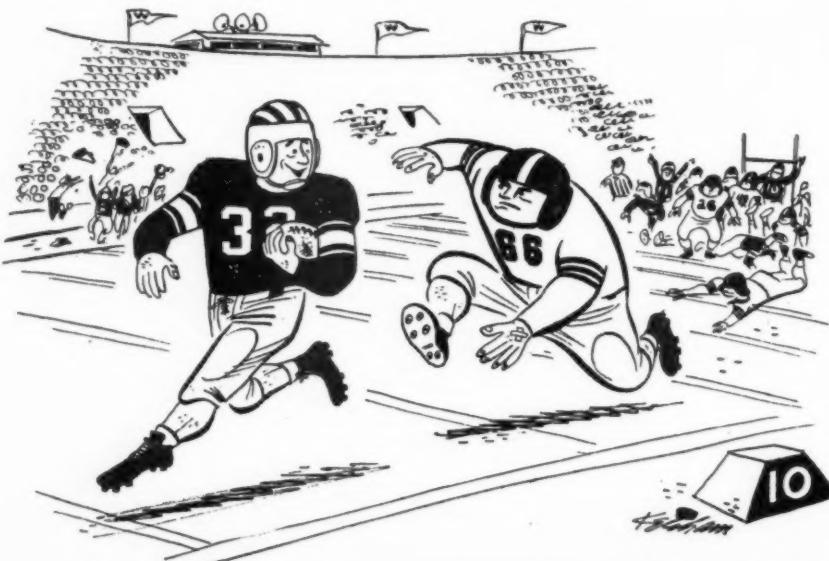
Just then the team ran the same play again, gambling on fourth down. Again the tackle missed his block and again the ball-carrier was downed for no gain. "Joe!" the substitute screamed, peeking around the coach to watch the play. "Oh, Joe, you wart-nosed baboon."

The Grand Old Man of Football spun around and saw the enemy take possession of the ball. He turned slowly back to the substitute. "Lad," he said, "you are absolutely right."

The oafish fighter thrust his jaw into the face of the reporter and snarled: "You called me a fool and for that I'm gonna beat the daylights out of you."

The reporter looked at him calmly. "Yeah, I called you a fool and I reiterate it."

"Well," muttered the boxer, with an air of satisfaction, "that's different. I accept your apology."



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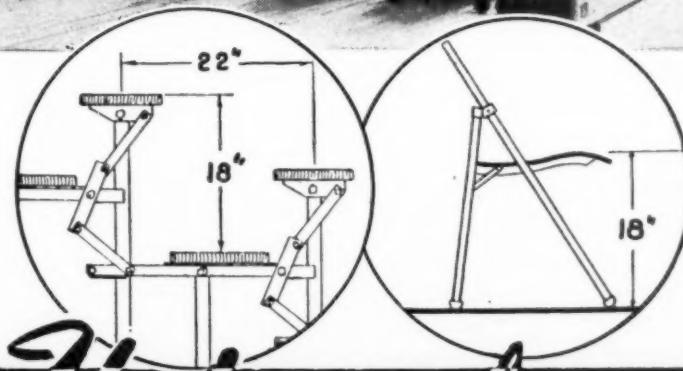
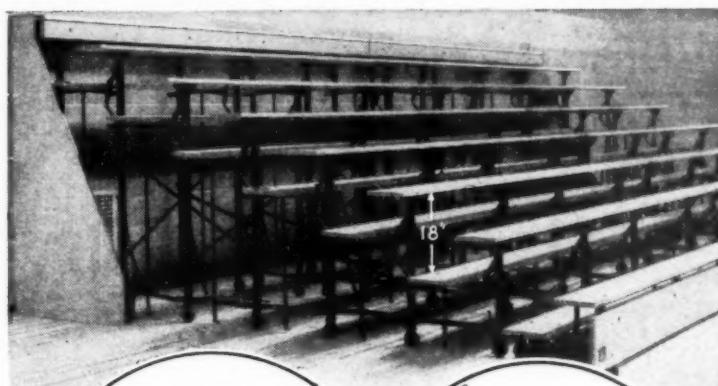
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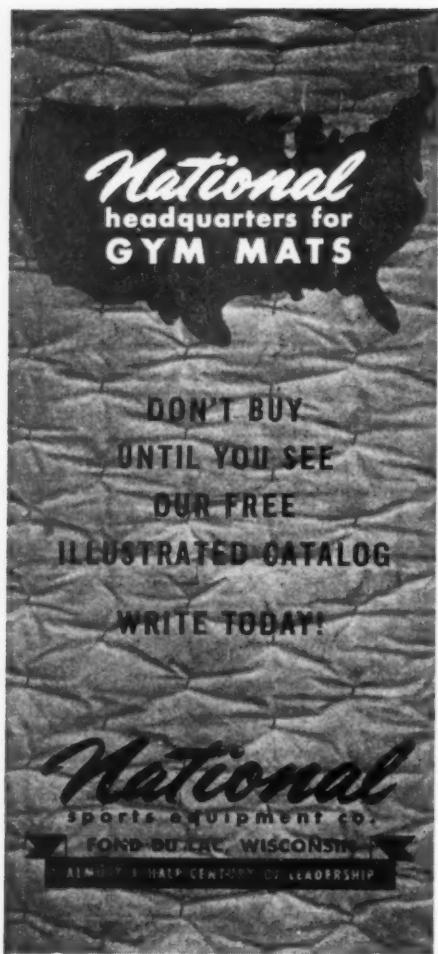
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New Books on the Sport Shelf

- AN APPROVED HISTORY OF THE OLYMPIC GAMES. By Bill Henry. Pp. 371. Illustrated—photographs and tables. New York: G. P. Putnam's Sons. \$5.

ALTHOUGH John Kieran wrote a book on the Olympics some years ago, this is the first definitive, documented, and approved history of the Olympic Games. In fact, all the royalties on it will go into the kitty of the U. S. and International Olympic Committees.

Bill Henry is a happy choice as historian. Sports enthusiast, globe trotter, and outstanding news commentator and reporter, he is the only living American to plan, prepare for, and conduct an Olympic Games (Los Angeles, 1932).

While serving as technical director for the 1932 Games, he began an exhaustive search into the background and history of the Olympics, gathering a mass of letters, documents, publications, and reports from all over the world.

Of particular importance was the material furnished by Baron de Coubertin, founder of the Games, and by the Baron's successor to the presidency of the International Committee, Count Henri de Baillet Latour.

The book, hence, is thoroughly authoritative. It traces the origin of the Games back to antiquity, shows their modern beginnings in the educational reforms of Thomas Arnold, tells of the tireless efforts of Baron Coubertin to revive the Games, and gives the full story of their development up to the present time.

It also offers the entire roster of champions and the complete results, in most instances to the first six places, of every event of the programs down through the 1948 Winter Olympics. A very enlightening and useful chapter on the Olympic organization is also included.

- ADMINISTRATION OF HIGH SCHOOL ATHLETICS (Second Edition). By Charles E. Forsythe. Pp. 440. Illustrated—drawings and tables. New York: Prentice-Hall, Inc. \$5.35.

ONE of the ablest athletic administrators in the land, currently doubling as assistant superintendent for interscholastic athletics in the Michigan Dept. of Public Instruction and state director of athletics for the Michigan High School Athletic Assn., Charles E. Forsythe is remarkably qualified to lay down a sound, workable administrative program for high school athletics.

His work is aimed at two groups of people: those who expect to become teachers, supervisors, or physical education directors and those who are already in the field administering high school athletic programs.

His recommendations and suggestions are as sound as saving bonds. He attacks the subject in 12 basic areas: eligibility regulations, contest regulations, policies and administration plans for local athletic programs, contest management, equipment, awards, finances and budgets, safety and sanitation, facilities—layout and maintenance, intramurals, athletics for girls, and junior high school athletics.

Also covered thoroughly are the National Federation, state high school athletic and activity associations, and trends in high school athletics.

The book is simply and excellently written, and has a wealth of information for everybody interested in raising the administrative standards of high school athletic programs so that they may be of greater educational value to the students who participate in them.

- HOW TO PITCH. By Bob Feller. Pp. 90. Illustrated—photographs. New York: A. S. Barnes & Co. \$1.50.

THE Cleveland ace chucks 'em straight down the middle in this straightforward, lavishly illustrated manual on the pitching art.

He explains minutely how to throw every pitch in the book—fast ball, curve, slider, knuckler, and change-up—how to work on a batter, how to field the position, the psychology of pitching, conditioning, and other fundamental details.

Practically everything is beautifully illustrated with both single action and progressive moving pictures. There is no lost motion, no filler fluff. Everything is precisely pertinent and simply and clearly projected.

- STANDARD SPORTS AREAS FOR INDUSTRIAL, SCHOOL AND PUBLIC RECREATION. Compiled and published by the Industrial Recreation Assn. Pp. 48. Illustrated—drawings and diagrams. Free.

THIS unusually helpful manual presents in condensed, ready-reference form the standard dimensions and specifications for the sports areas commonly found in recreation programs.

Compiled for the benefit of the recreation director, it is limited to official standards for layouts and facilities as established by the governing bodies of the activities included.

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(Concluded on page 62)

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Pick Your Coach and Coaching School

Use this directory to locate the schools at which your favorite college coaches will lecture. Complete information on the schools may be found in the Directory on p. 67 of the May issue.

Football

BELL, MATTY, S.M.U.—Texas Coaches (adv. on p. 67, May issue); Utah Coaches (adv. on p. 56).
BIERMAN, BERNIE, Minnesota—Milwaukee St. Teachers (adv. on p. 59); New Mexico Coaches (adv. on p. 59).
BUTTS, WALLY, Georgia—Louisiana Coaches (adv. on p. 68, May issue); Georgia U.
BROWN, PAUL, Cleveland Browns—Ohio Coaches (adv. on p. 68, May issue).
CALDWELL, CHARLIE, Princeton—Edinboro.
CRAVATH, JEFF, U.S.C.—Colorado Coaches (adv. on p. 68, May issue).
CRISLER, FRITZ, Michigan—Adams St. (adv. on p. 60, April issue); Kansas Coaches; Washington Coaches (adv. on p. 59).
DE GROOT, DUD, West Virginia—West Virginia U. (adv. on p. 69, May issue).
DODD, BOBBY, Georgia Tech—Eastern Pa. Coaches (adv. on p. 68, May issue); Ohio Coaches (adv. on p. 68, May issue); Texas Coaches (adv. on p. 67, May issue).
DREW, RED, Alabama—Bethany (adv. on p. 59).
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HOLCOMB, STU, Purdue—Edinboro; South Dakota Assn.; Western Illinois St. (adv. on p. 59).

HOWELL, DIXIE, Idaho—Idaho Coaches (adv. on p. 70, May issue).

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RUPP, ADOLPH, Kentucky—Western Illinois St. (adv. on p. 59).

SCOTT, TOM, North Carolina—North Carolina U.

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OR MONEY BACK!



BLEACHERS and Grandstand orders on file still constitute a large backlog and we are sorry that we cannot give the prompt shipment many customers desire, although we are proud of this continued popularity of our products as we enter our 54th business year. There is yet time, and a place on our schedule, for many more to be served during the present year if orders are placed promptly, but it does appear that those who wait until Fall may not receive additional seating needed for football.

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THE OLYMPICS' "NEW LOOK"

BRITISH inventors have come up with a flock of new mechanical gadgets that will give the coming Olympics a new look.

Among the devices is a new type of starting block. The whole heel pad can be moved backward or forward and the pad can be set at any required angle on the ground. The blocks can be reset accurately to any desired position. This will make it possible for a runner to come to the starting line and find his blocks already set to his instructions.

Rottenburg, a scientific engineer, has produced a new design for hurdles in tubular aluminum. They can be folded flat for storage and are adjustable to 30, 36, 42 in.

Pole vault and high-jump equipment also will be built of aluminum.

A no-jump indicator will show if an entrant in the broad jump has stepped over the take-off board. A mechanical sand leveler will quickly and accurately prepare a level pit surface for the next jumper.

Judges won't have to perform balancing tricks to replace pole vault bars. These will be put back into position by a patent pulley and hoist.

A new photo-finish camera will produce within ninety seconds a print showing the exact order of the runners as they pass the finish line. In the 1932 and 1936 Olympics the photographic finish apparatus produced a movie film which had to be processed and projected to decide a close finish.

HEALTH RESPONSIBILITY

THE strenuous nature of school sports requires top physical condition, and each player must be responsible both to himself and to the team. This responsibility includes an appreciation of the need for protection against unnecessary exposure to infection and against awkward movements which make a player vulnerable to injury.

The player who is an accident collector—who stumbles in the locker room or falls over a water bucket—is just as much a team casualty as if he had deserted. The player who gets a bad cold because of carelessness in sitting on the bench without adequate cover or who gets an infection because of failure to report and disinfect a cut or blister is just as much a team liability as if he had lost his eligibility.

Each individual must study his own powers of resistance and constantly keep up his guard. Early cleaning, disinfecting and bandaging of a cut, bruise, or blister contributes to the strength of a team. If an injury is received, the long range welfare of individual and team demands that it receive immediate attention. A short rest and an examination of an injury permits early preventive treatment.

—Football Player Handbook

“Single Wing”

(Continued from page 53)

as to where his defensive man is playing, it also relieves him of the nervousness caused by watching an opponent's eagerness to deliver a blow.

The T center is forced to take a high position because of the movement involved in the handoff. The high stance prevents him from becoming an effective blocker, since it gives the defensive guard an excellent opportunity to deliver a blow under the shoulders and stand him up.

The high position also prevents the T center from putting the ball out in front of him as far as he could in the single wing—a fact which enables the defensive man to take a closer position and deliver a faster blow.

The combination of these factors often unnerves the center and produces mechanical failures. The weaker the center, the more accentuated these failures become. The danger of this is not so great in the single wing because of his lower stance and the extended position of the ball.

Today, as the world struggles to retain its peace-time composure, we see the old way of life beginning to reappear. The true value of things are again being established. Society is striving once more for security.

The football world goes along with society and the stability of the sound single wing is becoming increasingly attractive. The peak of the T has been reached, and the trend will soon turn back to single wing.

The years from 1940 to 1950 will have seen the rise and fall of the T system of offensive football.

At least that's what I firmly believe.

(Supplementary note from the author: "I believe this article will provoke a great deal of controversy. But I am willing to defend any part of it. I realize it makes me an enemy of every T coach in the game. However, I believe I have written the truth and the truth stands. Of course I am hepped on the subject of the T. If I weren't, I would never have put so much time and thought into this piece. Having coached both systems of offense—single wing and T—I believe I am qualified to weigh them against each other. And, having no axe to grind, I have attempted to be as objective as possible.")

SAM E. CLAGG

SKM E. GEDDIE
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New Books

(Continued from page 56)

ing, tennis, track and field, volleyball, and wrestling.

The drawings and specifications are crystal clear and should furnish a valuable reference source for all recreation administrators. An excellent bibliography is also appended.

For your free copy, write to the American Playground Device Co., Anderson, Ind.

- 101 HINTS ON BETTER FLOOR CARE. Produced by Huntington Labs., Inc. Pp. 28. Illustrated—drawings. Free.

EVERYONE attending the showing of the Huntington picture, *Scientific Floor Maintenance* (reviewed on p. 47) will receive a copy of this exceedingly helpful booklet, which lists in simple, easy-to-read fashion the do's and don'ts of maintaining both "hard" and "soft" types of floor covering materials.

The proper care of wood is covered in detail. It tells: How to scrub a wood floor and what type of cleaning compound to use; how to prepare a wood floor for finishing; how to finish the floor to assure maximum wear; why wood should be waxed and how wax is most effectively used; how to reduce slipperiness.

Using the section on wood maintenance as a basis, the differences in maintaining linoleum, cork, asphalt tile, mastic, rubber tile, concrete, marble, terrazzo, tile, slate, and magnesite are each considered in turn.

Both the movie and the booklet have been prepared as a public service by Huntington Labs. in an attempt to help maintenance men understand the most effective and economical methods of floor maintenance. Advertising has been held to a minimum.

New Films

(Continued from page 47)

To colorful Stengel goes the job of combining the catching and the outfielding. Numerous members of the Oaks illustrate his teaching game.

The outfielding is illustrated by such gifted fly-catchers as Vince DiMaggio, Lloyd Christopher, and Brooks Holder.

Each of the infield positions is handled by a specialist, with Collins himself illustrating the first-base techniques.

Dykes handles his favorite position, third, using his brilliant hot-corner man, Don Ross, as demonstrator.

Orengo demonstrates how every youngster should go about playing shortstop, then teams with Alex Kamouris for a demonstration of second-base and double-play techniques.

The film is being distributed free of charge. For reservations, contact your nearest Wilson office.

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Hanger

BERMAN CHEMICAL (50)

Sample Saf-T-Klenz for
Swimming Pools

BUTWIN SPORTSWEAR (53)

Information on Sports
Jacket, Sideline Parka

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Scoreboards

E. J. CLARKE (29)

Catalog and Price List on
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CROUSE-HINDS (21)

Standard Plans for
Lighting Baseball, Football, Softball Fields

DUNLOP TIRE (39)

Tennis Book, "Stroking
with Vincent Richards"

EAGLE METALART (30)

Catalog on Trophies,
Medals, Emblems,
Banners

H. & R. MFG. (26)

Information on Dry
Marker

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Information on Shrink-
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HANNA MFG. (57)

Catalog on Bats

HARRINGTON & RICHARD- SON ARMS (62)

Information on Starter
Revolver

HILLERICH & BRADSBY (45)

Famous Sluggers Year
Book
 Softball Rules

HILLYARD SALES (55)

Booklet, "Floor Treatment
and Maintenance"
 Basketball Chart and
Scorebook

HORN BROS. (39)

Information on Folding
Partitions and Bleachers

HYDE ATH. SHOES (23)

Information on Athletic
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HUNTINGTON LABS. (15)

Basketball Coaches Digest
 Basketball Shot Charts
 Information on Film,
"Scientific Floor Main-
tenance"

ARTHUR KAHN CO. (62)

Address of Nearest
Uniform Makers

BRADLEY M. LAYBURN (31)

Information on Gym and
Playground Apparatus,
Portable Bleachers,
Electric Scoreboards

LEAVITT CORP. (60)

Information on Knock-
down Bleachers

LINEN THREAD (Inside Front Cover)

Full Information on
 Tennis Nets
 Goal Nets
 Protection Nets
 Gym Dividing Nets
 Baseball Batting Cage
Nets

MAGES SPORTS DISTRIBU- TORS (61)

Information on Repair of
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MARBA SYSTEM (35)

Information on Athletic
Equipment Reconditioning

SEE PAGE 64 FOR OTHER LISTINGS AND FORM FOR SIGNATURE

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E. O. MEACHAM (64)
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FRED MEDART (51)
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 Booklet, "Physical Fitness Apparatus"
 Catalog on Telescopic Gym Seats, Steel Lockers
 Information, Acromat-Trampolin
 Catalog on Basketball Backstops, Scoreboards

MUTUAL LIFE (2)
 Aptitude Test

NADEN & SONS (44)
 Catalog on Electric Scoreboards and Timers

NATIONAL SPORTS (56)
 Catalogs: Bases, Mats, Rings, Training Bags, Wall Pads, Pad Covers
 "Pointers on Boxing" Booklet

NISSEN TRAMPOLINE (52)
 Literature
 Booklet, "Tips on Trampolining"

O-C MFG. (47)
 Information on Apex Athletic Supporter

OCEAN POOL SUPPLY (52)
 Information on Trunks, Swim Fins, Kicka Boards, Nose Clips, Caps, Klogs

OHIO-KY. MFG. (49)
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PASSON'S SPORT (24)
 Price List on Repair of Inflated Balls and Athletic Shoes

PETERSEN & CO. (31)
 Catalog on Gym Mats, Wrestling Mats, Boxing Rings, Mat Covers and Prone Shooting Mats, Football Dummies

PHARMA CRAFT (60)
 Sample of Ting for Athlete's Foot

POWERS MFG. (64)
 Catalog on Athletic Uniforms

NOCONA LEATHER (17)
 Information on Line of Leather Athletic Goods
 Information on New Leather-Covered Molded Football Helmet

QUAKER OATS (41)
 Booklet, "Championship Football," by Fritz Crisler How Many _____

RAWLINGS (3)
 Catalog

REGALIA MFG. (35)
 New Book on Award Ribbons, Banners, Plaques, etc.

REVERE ELECTRIC (24)
 Sports Floodlighting Bulletin
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JOHN T. RIDDELL (43)
 Information on Suspension Helmets, Shoes, Balls, Track Supplies

SAFE-PLAY GOGGLE (56)
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SCHOOLBOY SPORTS (44)
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SEAMLESS RUBBER
 (Inside Back Cover)
 Information on Sav-A-Leg Home Plate, Athletic Tape, Kantleek Bladders
 Information on New Line of Athletic Balls

SPALDING & BROS. (1)
 Catalog
 Sports Show Book
 See ad for free reservation of new baseball film

STEWART IRON (16)
 Information on Field Enclosures and Backstops

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VOIT RUBBER (4)
 Catalog on Rubber Covered Athletic Balls and Equipment
 Illustrated Price List

WESTERN CARTRIDGE (46)
 Booklet, "Rifle Shooting for Schools and Colleges"

WYETH, INC. (19)
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JUNE, 1948

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